COMPREHENSIVE EVERGLADES RESTORATION PLAN, CENTRAL EVERGLADES PLANNING PROJECT, INTE-GRATED PROJECT IMPLEMENTATION REPORT AND ENVIRONMENTAL IMPACT STATEMENT: FINAL JULY 2014, REVISED DECEMBER 2014

COMMUNICATION

FROM

THE ASSISTANT SECRETARY OF THE ARMY, CIVIL WORKS, THE DEPARTMENT OF DEFENSE

TRANSMITTING

THE FINAL COMPREHENSIVE EVERGLADES RESTORATION PLAN INTEGRATED PROJECT IMPLEMENTATION REPORT AND ENVIRONMENTAL IMPACT STATEMENT, PURSUANT TO THE WATER RESOURCES DEVELOPMENT ACT OF 2000, SEC. 601

PART 4 OF 6



OCTOBER 6, 2015.—Referred to the Committee on Transportation and Infrastructure and ordered to be printed

U.S. GOVERNMENT PUBLISHING OFFICE

WASHINGTON: 2015

97-171



Cover insets (left to right):

Landscapes: Lake Okeechobee, Water Conservation Area 3, Everglades National Park, Florida Bay; Map: Depicts Average Annual Overland Flow across the period of record (1965-2005) for existing conditions, as modeled by the CEPP regional hydrologic model (the coloration of the arrows represents the relative volume of flow, while the direction of the arrows represents the movement of flow across the landscape); Small Landscapes: Ponding, soil oxidation (peat reduction), dry area of Everglades National Park, juxtaposition of urban development.

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C.3.1 National Environmental Policy Act (NEPA) Scoping

A NEPA scoping letter dated November 23, 2011 was mailed to stakeholders soliciting comments for this action. The scoping letter was used to invite comments from Federal, State, and local agencies, affected Indian Tribes, and other interested private organizations and individuals. Comments were accepted through January 20, 2011. Public scoping meetings were held December 14, 2011 in Plantation, Florida and December 15, 2011 in Clewiston Florida. A Notice of Intent (NOI) to prepare the Environmental Impact Statement (EIS) for the CEPP was published in the Federal Register (76 FR Volume 75539) December 2, 2011.

C.3.1.1 NEPA Scoping Letters



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

Planning and Policy Division Environmental Branch

NOV 2 8 2011

TO WHOM IT MAY CONCERN:

The Jacksonville District, U.S. Army Corps of Engineers (Corps) is beginning preparation of a National Environmental Policy Act assessment for the Central Everglades Planning Project. The goal of the Central Everglades Planning Project is to develop an integrated, comprehensive technical plan, including the first increment of project features to be recommended for authorization, for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem.

The Everglades ecosystem encompasses a system of diverse wetland landscapes that are hydrologically and ecologically connected across more than 200 miles from north to south and across 18,000 square miles of southern Florida. In 2000, the U.S. Congress authorized the Federal government, in partnership with the State of Florida, to embark upon a multi-decade, multi-billion dollar Comprehensive Everglades Restoration Plan (CERP) to further protect and restore the remaining Everglades ecosystem while providing for other water-related needs of the region. CERP involves modification of the existing network of drainage canals and levees that make up the Central and Southern Florida Flood Control Project to restore the south Florida ecosystem.

Construction has begun on the first generation of CERP project modifications already authorized by Congress. These include the Picayune Strand Restoration, the Indian River Lagoon South and Site 1 Impoundment projects. Project Implementation Reports have been completed, or are nearing completion, for the second generation of CERP projects for Congressional authorization, including Biscayne Bay Coastal Wetlands-Phase 1, the Broward County Water Preserve Areas, the Caloosahatchee River (C-43) West Basin Storage Reservoir, and the C-111 Spreader Canal Western Project. All of these CERP projects utilize lands that were acquired by the State and Federal government to meet CERP goals of increasing the extent of wetlands, reducing damaging freshwater discharges to the coastal estuaries, and reducing seepage losses from the natural system. These projects contribute significant ecological benefits to the system and the specific regional habitats in which they are located. These initial CERP projects were intended to provide initial and immediate ecological benefits and set the conditions along the margins of the system that help ensure increased water flows to the interior of the system will not cause adverse effects.

-2-

The next step for implementation of CERP is to redirect water that is currently discharged to the east and west coast estuaries from Lake Okeechobee and restore water flow to the south, allowing for restoration of natural habitat conditions and water flow in the central Everglades and re-connecting the ecosystem from Lake Okeechobee to Everglades National Park and Florida Bay. The Central Everglades Planning Project (Figure 1) will develop the initial increment of the project features that provide for storage, treatment and conveyance south of Lake Okeechobee, removal of canals and levees within Water Conservation Area 3 and seepage management features to retain water within the natural system. The CERP Projects identified to accomplish this include the Everglades Agricultural Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park Seepage Management, and Everglades Rain-Driven Operations. These projects make up the heart of CERP aimed at restoring more natural quantity, quality, timing and distribution of water flows to the remaining portions of the river of grass. An integrated study effort on these projects is needed to set the direction for the next decade of CERP implementation.

The Corps will hold a Public Workshop December 14 from 6:30 to 9:00 p.m. at the Sheraton Suites Plantation, Plantation I/II Room, 311 North University Drive, Plantation, Florida and December 15, 2011 from 6:30 to 9:00 p.m. at the John Boy Auditorium, 1200 South W.C. Owen Avenue, Clewiston, Florida. The formal portion of the workshop will begin at 7:30 p.m. The Central Everglades Planning Project team will be available prior to and after the formal presentation to provide information and answer questions about the projects and development of a proposed plan. Interested attendees can call 904-232-1613 for Spanish translation or other special services.

We invite the participation of Federal and State agencies, Native American Tribes, local agencies, interested parties and individuals in providing comments and identifying any issues or concerns. Please share this notice with any interested party. Please send any comments you may have to the attention of Gina Paduano Ralph, Ph.D. (904-232-2336) at the letter head address or email gina.p.ralph@usace.army.mil no later than 30 days from the date of this letter. All individuals providing comments will be included in future mailings. Others may be added to the mailing list by making a written request (postcard) to the same address or by email.

Sincerely,

Stuart . Appelbaum

Chief, Planning and Policy Division

Enclosure

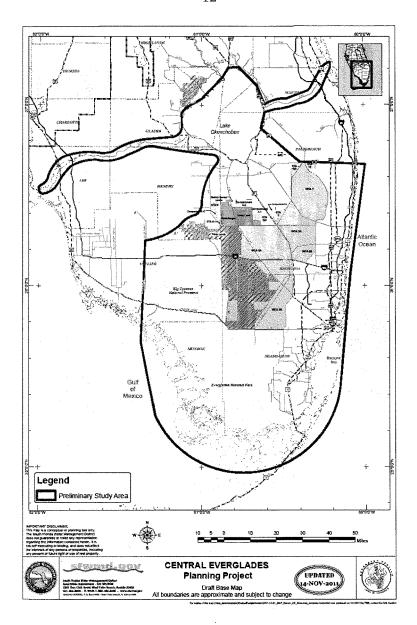


Figure 1. Central Everglades Planning Project Preliminary Study Area.



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

DEC 0 7 2011

ATTENTION OF

Planning and Policy Division Environmental Branch

Honorable Colley Billie Chairman, Miccosukee Tribe of Indians of Florida Post Office Box 440021, Tamiami Station Miami, Florida 33144

Dear Chairman Billie:

The Jacksonville District, U.S. Army Corps of Engineers (Corps) is beginning preparation of a National Environmental Policy Act assessment for the Central Everglades Planning Project. The goal of the Central Everglades Planning Project would be to develop an integrated, comprehensive technical plan for the first increment of project features to be recommended for authorization for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem. The Corps respectfully requests to meet with you and your staff routinely throughout this planning process to ensure any issues or concerns the Tribe may have are identified and we receive your input regarding the development of this plan. Additionally, the Corps would also like to invite you or your designated staff to participate on the Project Delivery Team that will be conducting the technical analyses and evaluations in support of plan development and selection. I, along with select staff, would be pleased to meet with you to discuss Central Everglades Planning Project.

The Everglades ecosystem encompasses a system of diverse wetland landscapes that are hydrologically and ecologically connected across more than 200 miles from north to south and across 18,000 square miles of southern Florida. In 2000, the U.S. Congress authorized the Federal government, in partnership with the State of Florida, to embark upon a multi-decade, multi-billion dollar Comprehensive Everglades Restoration Plan (CERP) to further protect and restore the remaining Everglades ecosystem while providing for other water-related needs of the region. CERP involves modification of the existing network of drainage canals and levees that make up the Central and Southern Florida Flood Control Project.

Since 2000, much progress has been made. Construction has begun on the first generation of CERP project modifications already authorized by Congress. These include the Picayune Strand Restoration, the Indian River Lagoon South and Site 1 Impoundment projects. Project Implementation Reports have been completed, or are nearing completion, for the second generation of CERP projects for Congressional authorization, including Biscayne Bay Coastal Wetlands – Phase 1, the Broward County Water Preserve Areas, the Caloosahatchee River (C-43) West Basin Storage Reservoir, and the C-111 Spreader Canal Western Project. All of these CERP projects utilize lands that were acquired by the State and Federal government to meet CERP goals of increasing the extent of wetlands, reducing damaging freshwater discharges to the coastal estuaries, and reducing seepage losses from the natural system. These projects contribute significant ecological benefits to the system and the specific regional habitats in which they are located. These initial CERP projects were intended to provide initial and immediate ecological benefits and set the conditions along the margins of the system that help ensure increased water flows to the interior of the system will not cause adverse effects.

The next step for implementation of CERP is to redirect water that is currently discharged to the east and west coast estuaries from Lake Okeechobee and restore water flow to the south, allowing for restoration of natural habitat conditions and water flow in the central Everglades and re-connecting the ecosystem from Lake Okeechobee to Everglades National Park and Florida Bay. The Central Everglades Planning Project (Figure 1) will develop the initial increment of project features that provide for storage, treatment and conveyance south of Lake Okeechobee, removal of canals and levees within Water Conservation Area 3, and seepage management features to retain water within the natural system. The CERP projects identified to accomplish this include the Everglades Agricultural Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park (ENP) Seepage Management, and Everglades Rain-Driven Operations. These projects make up the heart of CERP aimed at restoring more natural quantity, quality, timing and distribution of water flows to the remaining portions of the river of grass. An integrated study effort on these projects is needed to set the direction for continued CERP implementation.

The Corps will also hold a Public Workshop December 14 from 6:30 to 9:00 p.m. at the Sheraton Suites Plantation, Plantation I/II Room, 311 North University Drive, Plantation, Florida and December 15, 2011 from 6:30 to 9:00 p.m. at the John Boy Auditorium, 1200 South W.C. Owen Avenue, Clewiston, Florida. The formal portion of the workshop will begin at 7:00 p.m. The CES team will be available prior to and after the formal presentation to provide information and answer questions about the projects and development of a proposed plan. Interested attendees can call 904-232-1613 for any special services.

-3-

We look forward to the opportunity to meet with you. Please contact Kim Taplin 561-801-0285 at your earliest convenience to schedule.

Sincerely,

Alfred A. Pantano, Jr. Colonel U.S. Army District Commander

Enclosure

Copy Furnished:

Bernie Roman, Miccosukee Tribal Attorney; PO Box 440021 Tamiami Station; Miami, Florida 33144

Fred Dayhoff, Section 106 and NAGPRA Consultant; PO Box 440021 Tamiami Station; Miami, Florida 33144

James Erskine, Water Resources Director; PO Box 440021 Tamiami Station; Miami, Florida 33144

Rory Feeney, Miccosukee Wildlife Director; PO Box 440021 Tamiami Station; Miami, Florida 33144

Terry Rice, Colonel (Ret'd), PhD, PE; Miccosukee Everglades Consultant; 6526 S Kanner Highway, PMB 316; Stuart, Florida 34997

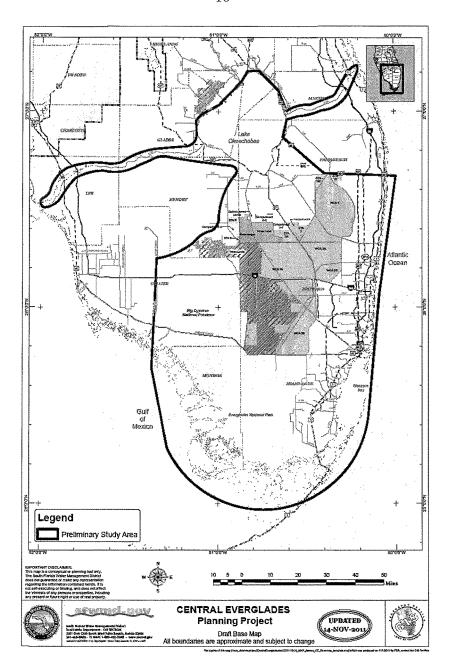


Figure 1. Central Everglades Planning Project Preliminary Study Area.



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

DEC 0 7 2011

Planning and Policy Division Environmental Branch

Honorable James Billie Chairman, Seminole Tribe of Florida 6300 Stirling Boulevard Hollywood, Florida 33024

Dear Chairman Billie:

The Jacksonville District, U.S. Army Corps of Engineers (Corps) is beginning preparation of a National Environmental Policy Act assessment for the Central Everglades Planning Project. The goal of the Central Everglades Planning Project would be to develop an integrated, comprehensive technical plan for the first increment of project features to be recommended for authorization for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem. The Corps respectfully requests to meet with you and your staff routinely throughout the planning process to ensure any issues or concerns the Tribe may have are identified and we receive your input regarding development of this plan. Additionally, the Corps would also like to invite you or your designated staff to participate on the Project Delivery Team that will be conducting the technical analyses and evaluations in support of plan development and selection. I, along with select staff, would be pleased to meet with you to discuss the Central Everglades Planning Project.

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-2-

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We look forward to the opportunity to meet with you. Please contact Kim Taplin 561-801-0285 at your earliest convenience to schedule.

Sincerely,

Alfred A Pantano, Jr. Colonel, U.S. Army District Commander

Enclosure

Copy Furnished:

Craig Tepper, Director of Water Resource Management, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Jim Shore, General Counsel, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Willard Steele, Seminole Tribe of Florida, Tribal Historic Preservation Officer, 30290

Josie Billie Highway, PMP 1004, Clewiston, Florida 33440

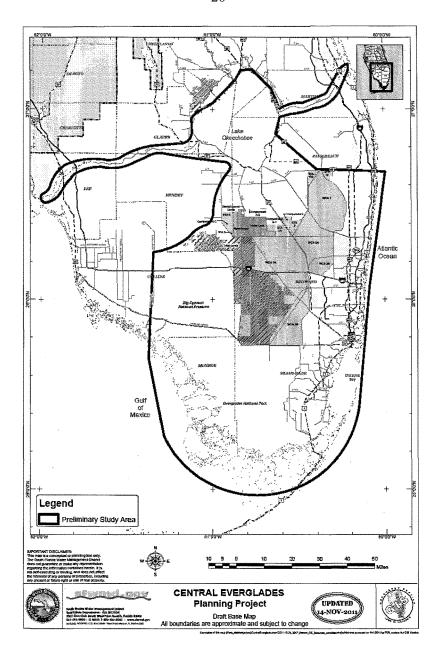


Figure 1. Central Everglades Planning Project Preliminary Study Area.

C.3.1.2 Notice of Intent



Dated: November 29, 2011. Morgan F. Park, Alternate OSD Federal Register Liaison Officer.

(FR Doc. 2011-30986 Filed 12-1-11) 8:15 am) BILLING CODE 5001-08-P

DEPARTMENT OF DEFENSE

Department of the Army, Corps of Engineers

intent To Prepare an Environmental Impact Statement for the Central Everglades Planning Project, Okeechobee, Glades, Martin, Palm Beach, Broward, Miami-Dade and Monroe Countles, FL

AGENCY: Department of the Army, U.S. Army Corps of Engineers, DOD. ACTION: Notice of intent.

SUMMARY: The Everglades ecosystem encompasses a system of diverse wetland landscapes that are hydrologically and ecologically connected across more than 200 miles from north to south and across 18,000 square miles of southern Florida. In 2000, the U.S. Congress authorized the Federal government, in partnership with the State of Florida, to embark upon a multi-decade, multi-billion dollar Comprehensive Everglades Restoration Plan (CERP) to further protect and restore the remaining Everglades ecosystem while providing for other water-related needs of the region. CERP involves modification of the existing network of drainage canals and levees that make up the Central and Southern Florida Flood Control Project

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ADDRESSES: U.S. Army Corps of Engineers, Planning Division, Environmental Branch, P.O. Box 4970, Jacksonville, FL 32232-0019.

FOR FURTHER INFORMATION CONTACT: Dr. Gina Ralph at [904] 232–2336 or email at Gina. P. Ralph@usacc.army.mil.

supplementary information:

a. The goal of the Central Everglades Planning Project effort would be to develop an integrated, comprehensive technical plan, including the first incoment of projects, for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem.

 A scoping letter will be used to invite comments from Federal, State, and local agencies, affected Indian Tribes, and other interested private organizations and individuals.

c. A scoping meeting will be held December 14, 2011 from 6:30 to 9 p.m. at the Sheraton Suites Plantation, Plantation I/II Knom, 311 North University Drive, Plantation, Florida and December 15, 2011 from 6:30 to 9 p.m. at the John Boy Auditorium, 1200 South W.C. Owen Avenue, Clewiston, Fl., Assistance for Individuals with special needs or language translation will be available as needed by calling (904) 232—1613.

d. All alternative plans will be reviewed under provisions of appropriate laws and regulations, including the Endangered Species Act, Fish and Wildlife Coordination Act, Clean Water Act, and Farmland Protection Policy Act.

e. The Draft Environmental Impact Assessment is expected to be available for public review in the 1st quarter of 2013

Brenda S. Bowen,

Army Federal Register Liaison Officer. (FR Dec. 2011–81010 Filed 12–1–11: 8:45 am) BILLING CODE 9720–58–P

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

Combined Notice of Filings #1

Take notice that the Commission received the following electric corporate filings:

Docket Numbers: EC12-38-000. Applicants: TPW Petersburg, LLC. Gestamp Eolica S.L.

Description: Application of TPW Petersburg, LLC and Gestamp Eolica S.L. for Authorization Pursuant to Section 203 of the Federal Power Act and Request for Confidential Treatment, Expedited Consideration and Waivers.

Filed Date: 11/21/11.
Accession Number: 20111121–5279.
Comments Due: 5 p.m. ET 12/12/11.
Take notice that the Commission

race route that the Commission received the following electric rate filines:

filings:

Docket Numbers: FR11-4674-001.

Applicants: Midwest Independent
Transmission System Operator. Inc.
Description: Vectren-IMPA FCA
Amendment to be effective 9/29/2011.

Filed Date: 11/21/11.

Accession Number: 20111121-5193.
Comments Due: 5 p.m. ET 12/12/11.

Docket Numbers: FR12-351-001.

Applicants: Midwest Independent
Transmission System Operator. Inc.
Description: 11-21-11 MRES

Attachment O. GG, and MM
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C.3.1.3 NEPA Scoping Comment Response Matrix

Table C.3.1-1. CEPP NEPA Scoping Comment Response Matrix

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LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE	
FEDERAL			
UNITED STATES F	FISH AND WILDLIFE SERVICE (FWS)		
FWS-1	While the Service [FWS] fully supports this	The Corps supports reconnecting WCA-	
	effort and approach, it is necessary to point	3B as a functioning component of the	
	out that there are many restoration	Everglades ecosystem. Alternatives to	
	opportunities within the Central Everglades	accomplish this will be evaluated	
	that would not be captured by simply	within CEPP. The CEPP alternatives will	
	undertaking the three specific projects	include operational changes to the L-29	
	suggested: EAA [Everglades Agricultural	canal stages, along with opportunities	
	Area] storage component, DECOMP [WCA-	for delivering additional water to	
	3 Decompartmentalization and Sheetflow Enhancement of PIR1 [Project	Everglades National Park (ENP).	
	Enhancement] of PIR1 [Project Implementation Report] Project; and ESM	All Modified Water Deliveries (MWD)	
	[Everglades Seepage Management] Project.	to ENP Project components currently	
	Evergiades seepage Management Project.	constructed or under construction will	
	Primarily, the reconnection of	be included within CEPP planning	
	WCA-3B [Water Conservation Area	process. Under a separate effort, the	
	3B] as a flow-through system con-	Corps plans to move forward with a	
	necting WCA-3A to ENP [Everglades	field test for relaxation of the G-3273	
	National Park] is the most critical	restraint, with a goal of increasing	
	part of Everglades restoration re-	and/or removing the G-3273 stage	
	maining to be planned. The Service	constraint to increase water deliveries	
	suggests, and will provide alterna-	from WCA-3A to ENP through	
	tive scenarios, that this critical ele-	Northeast Shark River Slough (NESRS)	
	ment be made a core component	for the benefit of natural resources.	
	of CEPP. Additional apportunities that	This test will include use of the S-356	
	 Additional opportunities that should be included in CEPP are the 	pump station. Also under a separate effort, the Corps will formulate an	
	relaxation of the G-3273 constraint.	operational plan that utilizes the newly	
	integration of the S-356 pump sta-	constructed 1-mile bridge.	
	tion to control seepage in the L-30	constructed I fille bridge.	
	and L-31N canals, and expansion of	Rain driven operations will also be	
	the S-333 structure to allow greater	examined as part of CEPP in order to	
	flow out of the ponded areas in	improve water deliveries into the	
	WCA-3A into Northeast Shark River	Everglades Protection Area and ENP to	
	Slough [NESRS].	restore more natural hydrologic	
	 Also, if the Combined Operational 	conditions.	
	Plan is going to be delayed or ab-		
	sorbed into CEPP then an opera-	Due to high rates of seepage, a	
	tional plan that utilizes the newly	regulation schedule is currently not	
	constructed 1-mile bridge should	utilized for WCA-3B, as it is an	
	be incorporated.	impounded area whose water	
	 Other opportunities include defin- ing environmental water regulation 	management function is to reduce seepage from WCA-3A to the east.	
	ing environmental water regulation	Scepage Hom Wen-3A to the East.	

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	schedules for WCAs 2 and 3B and refining the schedule for 3A.	Operational criteria for WCA-3B will be reviewed within CEPP. A revised regulation schedule for WCA-2 will not be included in CEPP.
FWS-2	as quickly as possible, determine the size and type of available storage and treatment areas in the EAA to help guide the team in formulating downstream project features. There is a considerable speculation as to the amount of water that the project will deliver south which is entirely predicated on the amount of storage and treatment available in the EAA. The Corps should notify the Service regarding the best time to provide important information regarding the design and detailed operations of stormwater treatment areas and storage reservoirs and their effects on listed species, migratory birds, and other wildlife resources.	The Corps concurs with this statement and is currently developing management measures and screening criteria to determine the size and type of storage and treatment features within the EAA. The Corps will continue to coordinate with FWS throughout CEPP process.
FWS-3	The Service does not feel that a completed seepage management project, without the delivery of additional water for the environment, constitutes a valid restoration project.	The formulation of CEPP components will incorporate a "systems thinking approach" to ensure compatibility with the Comprehensive Everglades Restoration Plan (CERP) and any potential future updates to restoration goals and targets. This will also highlight the interdependency of CERP components targeting restoration in the Central Everglades study area. A holistic system is any set (or grouping) of interdependent or temporally interacting parts. These parts are generally systems themselves and are composed of other parts (i.e. management measures and components). Systems thinking emphasizes the linkages and interactions between the parts that compose the entirety of a complex system. A common way to understand a complex system is to evaluate the system by analyzing the parts composing that system. Yet, focusing solely on management measures or

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LETTER	AGENCY/PUBLIC COMMENT	components in isolation could potentially lead to a disconnection between the function of the management measures and components and the functionality of the entire system. Systems thinking incorporates the examination of measures by themselves (similar to traditional Project Implementation Reports) and the synthesis of these parts. The CEPP plan formulation strategy will emphasize the interdependency of the components and articulate the strategy for maximizing their compatibility into a system, while incorporating design that
FWS-4	A project feature that should not be considered during the CEPP is further modification of the S-12 structures closure regime for protection of the Cape Sable seaside sparrow (Ammodramus maritimus mirabilis). Once the Everglades Restoration Transition Plan (ERTP) is authorized (Record of Decision scheduled late February 2012) the S-12 closure regime will be relaxed due to the addition of year-round operational capability at S-12C. With the additional "untested" risk to the Cape Sable seaside sparrow subpopulation A and its habitat from ERTP operations, the Service strongly recommends that restoration become more focused on shifting flow eastward towards the original flow path of WCA 3B to NESRS. No further management changes to the S-12s should be considered until more flow has been restored into northeastern ENP.	is flexible and amenable to change. As part of the Corps plan formulation and National Environmental Policy Act (NEPA) assessment process, systemwide benefits and impacts of each alternative will be analyzed and compared in order to select a recommended plan.
FWS-5	An area of concern regarding the expedited process is how PDT [Project Delivery Team] meetings are being conducted. As we approach the 3-month mark there have only been two PDT meetings. These were conducted as short (~3 hour) meetings prior to public workshops. Dialogue among PDT members and between the team and project management regarding critical	The initial phase of the process was focused on scoping. This is essentially development of the scope of the effort and development of the Project Management Plan (PMP). The PMP is the document of activities and funding required to conduct the study and is developed primarily between the Corps and the Non-Federal sponsor, SFWMD.

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	project planning elements was restricted. Draft language, such as project objectives, on which the PDT members were asked to comment, was not shared prior to the meeting. The Service suggests that the Corps and SFWMD [South Florida Water Management District] convene a PDT meeting in the style previously used during CERP to discuss critical project elements as soon as possible.	During this phase we conducted two PDT meetings and two NEPA public workshops to gather input about the study scope. Now that the Corps has received approval to enter into the execution phase, the PDT will meet regularly to discuss all aspects of the study during the process. Due to the expedited schedule, the Corps does not anticipate having read-aheads prior to PDT meetings. However, all materials will be made available to participants after the meetings.
FWS-6	The Service encourages the Corps and SFWMD to seek out and use available ecological planning tools to help to ensure that evaluations include both hydrologic and ecologic information. Consideration should be given to ecological planning tools in Florida Bay and Biscayne Bay as well as Greater Everglades.	The Corps concurs with this statement and has requested for full participation from our DOI partners with respect to utilization of current DOI ecological planning tools for assistance in determining potential ecological impacts of the CEPP alternatives. Ecological planning tools currently under consideration include the Cape Sable Seaside Sparrow Model, the Everglades Landscape Vegetation Succession Model (ELVes), the Apple Snail Population Model, and Prey Based Freshwater Fish Density Model. In order to be included within CEPP, however, all planning tools will need to undergo the appropriate level of Corps review and certification process.
FWS-7	The Service recommends that development of an adaptive management plan occur in conjunction with the CEPP planning process.	The Corps concurs with this statement and in accordance with the 2011 CERP Adaptive Management Integration Guide; an adaptive management plan will be developed and included in CEPP Project Implementation Report (PIR) and Environmental Impact Statement (EIS).
FWS-8	The Corps and SFWMD project managers should refine the scope and study area to more precisely fit the first increment of the CEPP as soon as possible. This will allow the team to refine the objectives and identify PMs [Performance Measures] and model applications that will be useful in determining project benefits.	The study area for CEPP encompasses the Northern Estuaries (St. Lucie River and Indian River Lagoon and the Caloosahatchee River and Estuary), Lake Okeechobee, a portion of the EAA, the Water Conservation Areas, ENP, the Southern Estuaries (Florida Bay and Biscayne Bay), and the Lower

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		East Coast (LEC). As CEPP plan
		formulation progresses, refinements to
		the original scope and study area as
		stated in the Corps NEPA scoping letter
		dated November 23, 2011 are
		anticipated.
FWS-9	Specific comments on the draft project	The project objectives have been
	objectives are as follows:	revised since the NEPA scoping letter
	 "Reduce water loss out of the natu- 	was mailed in November 2011.
	ral system" We assume that this	■ The reduce water loss in the quot-
	is referring to seepage loss since	ed text refers to seepage losses,
	the Seepage Management project	not discharges to the northern es-
	was identified as a core component	tuaries. However, another objec-
	of CEPP but it is not clear. It may re-	tive of CEPP is to reduce damaging
	fer to the loss of freshwater to tide.	discharges to the Northern Estuar-
	The seepage component is not pri-	ies.
	marily for wildlife benefit but for	■ The phrase "predicted by rainfall"
	flood protection and the objective	was removed from the objective.
	should reflect this. Please clarify	The desire is for the system to re-
	this objective.	spond more naturally to rainfall
	 "Restore more natural water level 	patterns.
	responses to rainfall predicted by	■ The objective has been revised to
	project modeling" This needs to	"Reduce high volume discharges
	be reworded or better explained.	from Lake Okeechobee to improve
	Does this imply that the model pre-	the quality of oyster and SAV
	dicts rainfall? We assume the de-	[submerged aquatic vegetation]
	sire is to have the system respond	habitat in the northern estuaries."
	more naturally to rainfall patterns.	The team has not fully established
	· ·	methods to analyze changes to the
	•	
		measures that assesses salinity en-
	_	•
		loosahatchee estuaries based on
	objective that by reducing salinity	discharges from Lake Okeechobee.
		1
	and seagrass habitats. This is not	with agency biologists and RECOV-
	the case as additional management	ER to identify performance metrics
	actions are needed for this to oc-	1
	1	tions.
	objective be reworded to include	
	the restoration of the overall eco-	
	~	
	,	
	grass populations in the Northern Estuaries by reducing salinity fluctuations from freshwater regulatory pulse discharges." There is a misconception contained within this objective that by reducing salinity fluctuations you increase oyster and seagrass habitats. This is not the case as additional management actions are needed for this to occur. The Service also suggests this objective be reworded to include the restoration of the overall ecological function of the estuaries as measured by oyster and sea-grass populations. Detailed questions regarding this objective are as follow:	measures that assesses salinity envelopes in the St. Lucie and Caloosahatchee estuaries based on discharges from Lake Okeechobee. The CEPP team intends to work with agency biologists and RECOVER to identify performance metrics to address these types of ques-

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	seagrass population,	
	species composition,	
	density, acreage increase,	
	etc?	
	Is Vallisneria included	
	under seagrass since it is an	
	important component of	
	the Caloosahatchee River restoration?	
	Which Northern Estuaries	
	will the CEPP improve (St.	
	Lucie, Caloosahatchee,	
	etc.)?	
	Will muck removal in	
	estuaries or addition of	
	artificial substrates (oyster	
	cultch) be included in the	
	Management Measures as	
	part of the CEPP to claim	
	maximum ecological	
	benefits for Northern	
	Estuaries oyster and	
	seagrass health and	
E1110 10	abundance?	
FWS-10	Concerns we have at this point are whether	The majority of the CEPP identified
	the RECOVER approved and vetted PMs previously used in CERP can be modified to	RECOVER approved PMs have already been utilized with RSM output during
	use RSM [Regional Simulation Model]	the CERP DECOMP Phase 1 project.
	output.	Any RECOVER approved PMs identified
	output.	for use by CEPP that do not currently
		work with RSM output will be modified
		by the CEPP team and verification
		testing demonstrating reasonable
		outcomes (e.g. compared to South
		Florida Water Management Model
		outputs) will be available for review.
FWS-11	Also of concern is how output from the	The Corps has requested full
	additional ecological tools will be used to	participation from our DOI partners
	formulate alternatives to optimize benefits	with respect to utilization of current
	for natural resources throughout the	DOI ecological planning tools for
	system. The Service recommends that	assistance in determining potential
	conclusions and recommendations drawn	ecological impacts and refining CEPP
	from these specialized tools be considered	alternatives. In order to be included
	between alternative runs to make the next	within CEPP, however, all planning
	iteration more beneficial for natural	tools will need to undergo the
	resources.	appropriate level of Corps review and
		certification process.

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FWS-12	There are some concerns with using the RESOPS model in conjunction with the Regional Simulation Model — Glades Lower Ease Coast Service Area (RSM-Glades LECSA) model. RSM-Glades LECSA is a daily time-step model that will be using output from RESOPS which utilizes a monthly time-step. This will automatically create inherent errors in the model results.	The RESOPS model will only be utilized during screening model application to CEPP. All final array alternatives will be run with the RSM Basins and RSM Glades LESCA models, both of which are daily time-step models capable of exchanging boundary conditions at a consistent temporal scale.
		The modeling tools for CEPP will be used for relative comparison. Extensive numerical analysis to reduce qualitative or quantitative uncertainties will not be conducted. Levels and degrees of uncertainties are recognizably inherent to the planning process. Some uncertainty will be addressed in cost contingencies which will help to account for uncertainty in the modeling tools and the expedited planning process.
FWS-13	A similar concern exists for the RSM Glades- LECSA model which simulates hydrology within 1-square mile grid cells without providing individual gauge data. Since the Corps and SFWMD water management sections base their management actions on individual gauge data as the Service bases its nondiscretionary terms and conditions on gauge data, a cross-walk between simulated hydrology across a large area to that at specific gauges will be needed. The hydrologic effects of the proposed action at key gauge sites identified by the Service during this and previous consultations should be provided.	While the RSM is a regional scale hydrologic model and results should be interpreted as such, the model does generate information for gauge locations and this information will be used in CEPP. Through review of RSM calibration results, it is possible to identify differences in the modeled representation of gauges of interest and the observed field responses.
FWS-14	L-29 levee concerns have presented a human health and safety constraint in WCA-3A, thus a levee assessment with flood event modeling will likely become necessary especially since more water is predicted to move south though the system into WCA-3A.	Based on the results of a preliminary Phase 1 review and analysis, as documented in the December 2011 ERTP Final EIS, the Corps determined the current configuration of WCA-3A would result in a predicted increase in the Standard Protective Flood (SPF) stage for WCA-3A of between 1.3 and 1.4 feet, due primarily to a reduced outlet capacity from the S-12s

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		compared to design assumptions. This
		significant change to the original design
		assumptions, with the additional
		diminished extent of emergent
		vegetation within WCA-3A, led the
		Corps to identify WCA-3A high water
		stages as a potential cause for concern.
		Although the preliminary analysis does
		not provide a quantifiable risk
		assessment, the hydrologic insights
		gained from the analysis made it
		prudent for the Corps to recommend
		the lowering Zone A of the WCA-3A Regulation Schedule as an interim risk
		reduction measure. The ERTP analysis
		did not identify a human health and
		safety constraint in WCA-3A.
		Sarety constraint in West Site
		CEPP would conduct preliminary levee
		safety screening by looking at stages
		based on the Period of Record (POR)
		output from RSM; this screening level
		assessment would be contained in the
		CEPP PIR, consistent with the POR-
		based Savings Clause assessment of
		levels of service for flood protection
		within the LEC. Design Storm/SPF
		analyses (levee design criteria) would
		be conducted, if warranted, during the
		preconstruction engineering design
		(PED) phase of CEPP. Appropriate
		resources, scope and analysis tools
		have not been identified at this time.
		Once the existing conditions baseline and Future Without (FWO) modeling is
		done, CEPP team should know the
		levee safety screening baseline
		conditions for WCA-3A, WCA-3B, and
		ENP. If water levels within the natural
		areas increase under CEPP during POR
		high water events, further evaluation
		of potential effects on the levee design
		criteria in the affected areas would
		likely be needed (depending on the
		upstream storage components and
		WCA-3B conveyance, water levels in
		WCA-3A may not increase) in PED.

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		During PED, the Corps would look at options to maintain benefits and not increase levee modification costs (i.e. levee redesign, construction or mitigation).
FWS-15	The planning team should evaluate available tools and information that can be used to assess future impacts of climate change including sea level rise and changes in urbanization (which may affect water supply).	A sea level rise evaluation will be conducted on the tentatively selected plan (TSP), using a static scenario based geographic conformations system (GIS) sea level rise mapping effort similar to previous CERP PIRs.
		The future conditions for the CEPP planning effort holds consumptive use (i.e. water supply) fixed at current levels due to state-rulemaking.
TRIBAL		
MICCOSUKEE TRI		
M-TRIBE-1	EIS [Environmental Impact Statement] Required: CEPP formulation and implementation will have a "significant impact on the human environment." Therefore, the document that is required to be prepared by the Corps under the National Environmental Policy Act ("NEPA") must be an Environmental Impact Statement ("EIS") rather than an Environmental Assessment ("EA").	An EIS will be prepared for CEPP in accordance with NEPA.
M-TRIBE-2	All Applicable Law Must be Followed.	As with all Corps' projects, CEPP will be planned and implemented in accordance with all applicable laws.
M-TRIBE-3	ERTP [Everglades Restoration Transition Plan]. Not IOP [Interim Operational Plan for protection of the Cape Sable Seaside Sparrow]. Should be the Base Condition: The Corps concluded in the Final Environmental Impact Statement (FEIS) on the Everglades Restoration Transition Plan that "IOP is no longer a viable option" for water management within WCA-3A and the South Dade Conveyance System." ERTP FEIS at xiii. The Corps argued when it stopped using the Test 7 operational plan as a base condition in the EIS process that it could no longer be used because it was contrary to the ESA [Endangered Species	The CEPP existing condition has been defined as conditions existing as of January 27, 2011. As the Record of Decision for ERTP is not expected until June 2012, 2006 IOP will serve as the CEPP existing conditions. Upon ERTP Record of Decision, ERTP will serve as the future without project condition.

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	Act]. Similarly here, the Corps cannot rely	
	on IOP as the base condition for CEPP in the	
	NEPA process, because it is not viable. In	
	addition, the ERTP should be replacing IOP	
	in the very near future and prior to any	
	NEPA document being produced.	
M-TRIBE-4	Ensure No Adverse Impacts to the	The Corps is currently in consultation
	Miccosukee Tribe Culture and Cultural	with both Tribes and State Historic
	Resources: The Corps must perform a	Preservation Office to develop
	comprehensive review of all potential	methods to perform any inventories
	adverse impacts of all proposed actions	required under NEPA and Section 106
	under the CEPP on the Miccosukee Tribe's	and an initial review of potential
	Culture and Cultural Resources in the	impacts to cultural resources.
	action area, which includes WCA-3 and the	
	Park [Everglades National Park, ENP], and	The Corps considers public health and
	ensure that any adverse impacts are	safety as its highest priority, and WCA-
	eliminated prior to implementation of the	3A will continue to be managed by the
	selected alternative. <u>Certainly, the</u>	Corps in accordance with this priority.
	assurance of the "health and safety" of the	
	Tribe must be paramount.	
M-TRIBE-5	Must Produce Benefits for Tribal Lands in	Modifications to the WCA-3A
	WCA 3A: The CEPP process should	Regulation Schedule, including rain-
	incorporate a revised WCA-3A regulation	driven operations, will be examined as
	schedule targeted at the restoration of the	part of CEPP in order to improve water
	entire central Everglades that incorporates	deliveries into the Everglades
	a multispecies management approach	Protection Area and ENP and to restore
	building upon what was achieved with the	more natural hydrologic conditions.
	ERTP and hopefully will be achieved under	The CEPP will include a multispecies
	COP [Combined Operational Plan].	approach to water management.
M-TRIBE-6	CEPP Must Decrease WCA 3A Flooding:	Restoration of more natural water
	CEPP must reduce damaging high water	flows, water levels and habitat
	levels in WCA 3A even more than the	conditions within WCA-3A is an
	proposed ERTP and the anticipated COP.	important focus of CEPP. One
	So-called "new science," which in many	objective of CEPP is to restore seasonal
	cases is old science that has been	hydroperiods and freshwater
	discarded, must not be misused as an	distribution to support a natural
	excuse to drown the Tribal Everglades to	mosaic of wetland and upland habitat
	provide more water to the Park	in the Everglades system. Tree islands
	downstream.	support a diverse array of upland (land-
		requiring) species and are an important
		focus of Everglades restoration. By
		restoring appropriate hydrologic
		conditions, tree islands and other short
		hydroperiod environments (e.g. marl prairie) will be restored and thereby
		provide suitable habitat for both
		1 '
		wetland and upland species.

TepP water management actions that may impact water levels in WCA-3 must account for specific flood stage of the L-29 levee system as detailed in the US Army Corps of Engineers 2011 General Design Memorandum for WCA-3A. Finally, any safety studies that have been, or are being, conducted on the L-31 levee and the Lake Okeechobee dike must also be taken into account. Health and safety of the Miccosukee Tribe, and the public, must be the top priority in the CEPP process. By a proper to the top priority in the CEPP process. The top priority in the CEPP process. By a proper to the top priority in the CEPP process. By a proper to the top priority in the CEPP process. By a proper to the top priority in the CEPP process. By a proper to the top priority in the CEPP process. By a proper to the top priority in the CEPP process. By a proper to the top priority in the CEPP process. By a proper to the top priority in the CEPP to the top priority in the CEPP to the top priority in the CEPP process. By a proper to the top priority in the CEPP to the top priority in the condition to the top priority in the condition to the top priority in	LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
impact water levels in WCA-3 must account for specific flood stage of the L29 levee system as detailed in the US Army Corps of Engineers 2011 General Design Memorandum for WCA-3A. Finally, any safety studies that have been, or are being, conducted on the L-31 levee and the Lake Okeechobee dike must also be taken into account. Health and safety of the Miccosukee Tribe, and the public, must be the top priority in the CEPP process. We have been design criteria in the argument of the WCA-3A, WCA-3B, and ENP. If water levels within the natural areas increase under CEP during POR high water events, further evaluation of potential effects on the level edesign criteria in the affecte areas would likely be needed (depending on the upstream storage components and WCA-3B conveyance water levels in WCA-3A may no increase) in PED. During PED, the Corps would look at options to maintain benefits and not increase leve modification costs (i.e. leve redesign, construction and implementation early in the sequencing process. Constructing storage at the soonest must be a priority if CEPP is to succeed. M-TRIBE-9 M-TRIBE-9 M-TRIBE-9 M-TRIBE-9 M-TRIBE-9 Rehydrate Only with Clean Water to Protect Northern WCA-3A and WCA-3B: on management measures and screenin criteria to determine the size and type to storage at the soonest must be a priority if CEPP is to succeed. M-TRIBE-9 M-TRIBE-9 The Corps concurs with this statemen and is currently developin criteria to determine the size and type with the protect Northern WCA-3A and WCA-3B: on the sequencing process. Constructing storage at the soonest must be a priority if CEPP is to succeed. M-TRIBE-9 The Corps concurs with this statemen criteria to determine the size and type to storage and treatment feature within the EAA. The Corps concurs with this statemen criteria to determine the size and type to storage and treatment feature within the EAA. The Corps concurs that water that doe not meet water quality standard by the process.	M-TRIBE-7	Health and Safety Must Be a Priority: any	The Corps considers public health and
account for specific flood stage of the L-29 levee system as detailed in the US Army Corps of Engineers 2011 General Design Memorandum for WCA-3A. Finally, any safety studies that have been, or are being, conducted on the L-31 levee and the Lake Okeechobee dike must also be taken into account. Health and safety of the Miccosukee Tribe, and the public, must be the top priority in the CEPP process. Be taken into account. Health and safety of the Miccosukee Tribe, and the public, must be the top priority in the CEPP process. CEPP Appropriate resources, scope and analysis tools have not been identified at the current time. Once existing conditions baseline and FWM modeling is done, CEPP team should know the levee safety screenin baseline conditions for WCA-3A, WCA-3B, and EMP. If water levels within the natural areas increase under CEP during POR high water events, further evaluation of potential effects on the levee design criteria in the affecte areas would likely be needed (depending on the upstream storage components and WCA-3B conveyance water levels in WCA-3A may no no increase) in PED. During PED, the Corps would look at options to maintain benefits and not increase levee modification costs (i.e. lever redesign, construction or mitigation). M-TRIBE-8 CEPP Must Incorporate Storage As a Priority: Incorporating storage facilities must be a central component of the CEPP and should be scheduled for construction and implementation early in the sequencing process. Constructing storage at the soonest must be a priority if CEPP is to succeed. M-TRIBE-9 Rehydrate Only with Clean Water to Protect Northern WCA-3A and WCA-3B. In general, CEPP should never permit rehydration with dirty water and should be avoided to the maximum extent practicable for rehydration of the CEPP and should be avoided to the maximum extent practicable for rehydration of the CEPP and should be avoided to the maximum extent practicable for rehydration of the CEPP and should be avoided to the maximum extent practicable for rehydration of the		CEPP water management actions that may	safety as its highest priority. The CEPP
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rehydration with dirty water and should extent practicable for rehydration o		Protect Northern WCA-3A and WCA-3B: In	not meet water quality standards
		general, CEPP should never permit	should be avoided to the maximum
والمناف والمنا		rehydration with dirty water and should	extent practicable for rehydration of
always strive for natural flows and levels unnaturally dried out areas. As part o		always strive for natural flows and levels	unnaturally dried out areas. As part of

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	to the greatest extent practicable.	the Corps plan formulation and NEPA
		assessment process, system-wide
		benefits and impacts of each
		alternative will be analyzed and
		compared in order to select a
		recommended plan.
M-TRIBE-10	CEPP Must Incorporate Solutions to Stop	The CEPP Project Team will coordinate
	Western Basins Pollution: Recent data	with the implementing agencies on
	from the 2011 South Florida Environmental	efforts to improve water quality in the
	Report shows that the combined discharge	Western Basins and the Seminole
	from the S-140 and S-190 water control	Tribes' Water Conservation Plan
	structures comprised nearly 30% of the	(Critical Project).
	total phosphorus load discharged to WCA-	
	3A. The Central Everglades Planning	
	Process is the time to initiate the long	
	overdue planning process for the CERP	
	[Comprehensive Everglades Restoration	
	Plan] Big Cypress- L-28 Interceptor	
	Modifications and provide a solution for the	
	devastating discharges from the L-28	
	Interceptor Canal and the S-140 water	
	control structure.	
M-TRIBE-11	No More Dirty Water, No Rehydration	The CEPP will formulate appropriate
	with Dirty Water, & No Use of WCAs As De	water quality treatment facilities
	Facto STAs [stormwater treatment areas]:	needed to ensure any new water
	the Tribe does and will not support a	moving into the everglades will meet
	CEPP that 1) increases the amount of dirty	the required 10 parts per billion (ppb)
	water brought into the Everglades	long-term geometric mean.
	Protection Area, or 2) restores flows to the	
	Everglades Protection Area with dirty	
	water, until the restoration water meets	
	the 10 ppb P [phosphorus] criterion	
	mandated by the Clean Water Act. Even	
	more, Tribal land will not be utilized as an	
	STA. The 10 ppb P criterion must be a	
	major performance measure in CEPP and	
	water quality must be thoroughly analyzed	
AA TDIDE 13	and evaluated in the CEPP process.	A
M-TRIBE-12	No Trade-Offs Permitted:"trade-offs	As part of the Corps plan formulation
	between water quality and water quantity"	and NEPA assessment process, system-
	which opens the door wide for those who	wide benefits and impacts of each alternative will be analyzed and
	would destroy one part of the Everglades for the benefit of another. At the heart of	alternative will be analyzed and compared in order to select a
	this is the utilization of vast areas of the	recommended plan.
	Everglades (both WCAs and Tribal Land) as	recommended plan.
	de facto STAs in the restoration process.	
	The Tribe is concerned that under the guise	
	The Tibe is concerned that under the guise	1

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	of "new science" some will attempt to use	
	the CEPP process to seek a plan that forces	
	large volumes of water through some	
	areas, like WCA-3A, for the possible benefit	
	of some areas, like the Park to the south.	
	CEPP must endorse as a guiding principle	
	that no area of the Everglades will be	
	destroyed/sacrificed for the benefit of	
	another area of the Everglades by planned	
	CERP projects, or for that matter, any	
	proposed project.	
M-TRIBE-13	CEPP Must Not Delay Aiready Delayed	For planning purposes, the MWD
	MWD [Modified Water Deliveries to	project will be assumed to be complete
	Everglades National Park] Project	based upon those features already
	<u>Components:</u> The Tribe is concerned that	completed and those features
	some will attempt to delay important	currently under construction. This
	aspects of this project by incorporating	planning assumption is predicated
	them into the CEPP, which may never be	upon the Corps, in consultation with
	authorized. The Tribe will be opposed to	DOI, first making a determination that
	any attempt to do so. Completion and	the expected benefits for the MWD
	implementation of the MWD Project must	project have been achieved.
	be a pre-condition to the CEPP and a	
	"without project condition" under NEPA.	
M-TRIBE-14	Decompartmentalization of WCA-3: plans	The CEPP will build upon DECOMP
	for the Decompartmentalization [DECOMP]	project components and will examine
	of WCA-3 should incorporate more than	an array of management measures for
	the hydrologic modification features	decompartmentalization of WCA-3A.
	the hydrologic modification features proposed for north of I-75 by the DECOMP	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for removal in addition to the entire Miami	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for removal in addition to the entire Miami canal and L-67 canal system to truly provide restoration of the "Central Everglades." As the Decompartmentalization of WCA 3	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for removal in addition to the entire Miami canal and L-67 canal system to truly provide restoration of the "Central Everglades." As the Decompartmentalization of WCA 3 progresses, careful and consistent	decompartmentalization of WCA-3A.
	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for removal in addition to the entire Miami canal and L-67 canal system to truly provide restoration of the "Central Everglades." As the Decompartmentalization of WCA 3 progresses, careful and consistent consultation with the Tribe should take	decompartmentalization of WCA-3A.
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	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for removal in addition to the entire Miami canal and L-67 canal system to truly provide restoration of the "Central Everglades." As the Decompartmentalization of WCA 3 progresses, careful and consistent consultation with the Tribe should take	decompartmentalization of WCA-3A.
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M-TRIBE-15	proposed for north of I-75 by the DECOMP PDT [Project Delivery Team]. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for removal in addition to the entire Miami canal and L-67 canal system to truly provide restoration of the "Central Everglades." As the Decompartmentalization of WCA 3 progresses, careful and consistent consultation with the Tribe should take place to ensure that the cultural meeting places of the Miccosukee people and Tribal camps are not adversely affected. Analyze Expanding the Capacity of S-333: All water that the Park desires for rehydration of Northeast Shark River	The Corps supports reconnecting WCA- 3B as a functioning component of the Everglades ecosystem. Opportunities

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	possible should be funneled through WCA-	
	3B, and, if more is available to satisfy the	
	desires of the Park, than it should be	
	provided via S-333, at least until the CERP	
	eastern rehydration projects are	
	completed. In order to provide this	
	additional water, the capacity of S-333	
	should be increased. It is only prudent to	
	finally increase the size of S-333 in order to	
	ensure the Park can receive higher volumes	
	of water at a faster rate that it claims it	
	needs.	
M-TRIBE-16	8.5 Square Mile Area [SMA] Must Be	The Corps concurs with this statement.
	Protected: The Corps must ensure the	Flood mitigation will be provided to the
	people of the 8.5 SMA are afforded the	8.5 SMA in accordance with the 2000
	protection they are authorized, and must	MWD 8.5 5MA Record-of-Decision
	not let another 8.5 SMA debate paralyze	(ROD).
	the restoration process and stop the CEPP	
	from being implemented.	
M-TRIBE-17	CEPP Transitional Plan is Essential: There	Once the TSP is selected, the PDT will
	remain several components of both the	develop an implementation plan. The
	MWD and C-111 projects that must be	implementation plan for the CEPP TSP
	formulated, designed and constructed.	will recognize that time will be
	These components will not all be	required to receive funds and complete
	completed at the same time; it will take	construction of CEPP features. The
	years for all to be completed. Similarly, the	implementation plan will consider
	components of the different projects that	whether certain features could be
	will constitute the CEPP to deliver what the	"partially operated" to achieve benefits
	Corps refer to as "incremental" restoration	while the remaining CEPP features are
	will also come on line at different times.	still under construction.
	Thus, the CEPP should contain a	
	transitional plan that implements	
	beneficial operational changes once each	
	new component of the Pre-CERP and CERP	
	projects is completed.	
M-TRIBE-18	No Operation of the S-356 Pump Station:	The S-356 pump station is an
	The Miccosukee Tribe will not support the	authorized and constructed feature of
	operation of the S-356 pump station as a	the MWD project, designed to mitigate
	component of CEPP. There are three	for the additional seepage from
	primary reasons: 1) water quality issues	ENP/WCA-3B caused by
	exist which have not been adequately	implementation of MWD. S-356
	addressed2) the net result of the use of S-	provides a means of controlling
	356 is pumping water in a circleand 3)	additional inflows to L-31 borrow canal
	most important to the Tribe, the pumping	caused by the increased seepage into
	into the L-29 Canal from S-356 reduces the	the canal resulting from MWD
	flow through 5-333 into the L-29, and, thus	implementation.
	results in higher water in WCA-3A and	

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Tribal land. This latter consequence of S-	The CEPP will also focus on additional
	3S6 utilization results in adverse impacts to	management measures to control
	Tribal lands in WCA-3A and the endangered	seepage within the project area.
	snail kite and its critical habitat. The S-356	
	pump station has no redeeming value at	
	this point, and probably never will, and it	
	certainly should be eliminated from	
	consideration in the formulation of CEPP.	
M-TRIBE-19	Address Seepage Control As A Critical	Seepage management is a primary
	Requirement: Seepage out of Northeast	CEPP focus.
	Shark River Slough in ENP remains a huge	
	impediment to restoration. Simply and	
	directly stated, the restoration of ENP and	
	the entire Everglades cannot be achieved	
	until the seepage between S-335 and G-211	
	is adequately managed. CEPP must	
	recognize this debilitating seepage	
	limitation and be formulated to	
	appropriately account for it.	
M-TRIBE-21	1-Mile Eastern Bridge Should Be Plugged:	The Corps concurs that seepage
	given the facts that additional flows into	management concerns will need to be
	Northeast Shark River Slough are severely	further evaluated and addressed as
	limited by seepage into the L-31 Canal, and	necessary prior to raising the L-29
	that the 1-Mile Eastern Bridge that is now	operational limit to 8.5 feet NGVD
	being constructed will concentrate current	following completion of the Tamiami
	and additional flows on the eastern side of	Trail modifications.
	the Park, it is clear that the bridge should	
	not be utilized until the seepage challenge	The S-356 pump station is an
	is met. The opening under the ridge	authorized and constructed feature of
	should either 1) remain blocked by leaving	the MWD project, designed to mitigate
	the existing Tamiami Trail in place, or 2) be	for the additional seepage from
	blocked by fill, sheet pile, or some other	ENP/WCA-3B caused by
	technique, until the seepage challenge is	implementation of MWD. S-356
	appropriately met, thus forcing more of	provides a means of controlling
	the flow to the west in Shark River Slough	additional inflows to L-31 borrow canal
	where seepage is much less of an issue.	caused by the increased seepage into
		the canal resulting from MWD
		implementation.
M-TRIBE-22	Reduce/Eliminate the "Big Red Arrow":	The Corps concurs that CEPP has the
	The "Big Red Arrow", i.e. the arrow	potential to exacerbate the inter-basin
	depicted on water budget schematics	transfer of water from the ENP NESRS
	depicting the huge amounts of water	basin to both the adjacent Miami-Dade
	forced south out of the L-31N Canal into	area and the C-111 basin, consistent
	the area of Homestead and vicinity since	with insights from prior CSOP
	the enlargement of the L-31N in the early	stakeholder input and CSOP alternative
	1980s, must be reduced to the maximum	evaluations. As part of the Corps plan
	extent practicable. If not, beyond the level	formulation and NEPA assessment

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	of protection authorized by Congress, and	process, system-wide benefits and
	clearly CEPP has the potential to exacerbate	impacts of each alternative will be
	this already bad situation, the people of	analyzed and compared in order to
	south Miami-Dade will continue to be	select a recommended plan. In order
	flooded. Therefore, CEPP should have as a	to respond to these known issues, the
	primary goal the elimination of the "Big Red	CEPP development will include
	Arrow".	evaluation of IOP/ERTP Column 2
		operations (regulatory transfer from
		WCA-3A to C-111 detention areas) and
		Lower East Coast canal stages, NESRS
		inflow constraints, S-356 and other
		seepage management operations, G-
		211 flood control operations, 8.5 SMA
		flood mitigation operations, and C-111
M-TRIBE-23	Maintain the G-3273 Trigger Gage:	detention area operations. As part of the CEPP plan formulation
WI-LIVIBL-23	Uncontrolled, high volumes of seepage into	process, seepage management
	the L-31N Canal can cause and has	measures and operations will be
	exacerbated flooding in the built portion of	considered in order to meet the project
	Miami-Dade County, which includes	objectives. It is the intent that once
	Miccosukee property. Seepage also causes	seepage issues are addressed that
	the "Big Red Arrow", which specifically	constraints such as the G-3273 trigger
	leads to increased flooding in southern	stage can be reduced and/or
	Miami-Dade. Historically, this seepage has	eliminated in order to allow increased
	been somewhat managed by discontinuing	flows to NESRS via S-333 and from
	the controllable inflow of water into	WCA-3B via the S-355s. Under a
	Northeast Shark River Slough when the G-	separate effort, the Corps plans to
	3273 gauge rises 6.8 feet NVGD [National	move forward with a field test for
	Geodetic Vertical Datum]. Until seepage,	relaxation of the G-3273 restraint, with
	and, thus, unacceptable flooding, are	a goal of increasing and/or removing
	adequately addressed, there is little	the G-3273 stage constraint to increase
	reason to believe that G-3273 trigger well	water deliveries from WCA-3A to ENP
	is not going to remain a critical part of the	through Northeast Shark River Slough
	water management system under CEPP.	(NESRS) for the benefit of natural
		resources.
M-TRIBE-24	Clear Downstream of the Culverts to	The Corps concurs with the importance
	increase Flows:new and independent	of increased flow through existing
	scientific/engineering findings [Dr. David A.	culverts as practicable as well as other
	Chin, PE, January 2010] provide great hope	measures to increase the flow out of
	for major, quick improvements in the	WCA-3A.
	condition of the Everglades at a very	
	reasonable cost. Dr. Chin's work convinced	
	the Superintendent of ENP to conduct an	
	actual Pilot Swale Project to evaluate Dr.	
	Chin's findings in the field; although this	
	pilot project was supposed to be	
	implemented by October of 2010, it	

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	appears that the work has been delayed.	
	Given that the evidence and possibilities	
	are so compelling, and the deteriorating	
	state of the Everglades so dire, the Corps	
	should move forward with full scale swale	
	projects immediately, and analyze the	
	increased flow capabilities of swales as a	
	component of the CEPP EIS.	
M-TRIBE-25	Clear Downstream of the S-12s &	The Corps concurs with the importance
	Implement Other Measures Needed to	of increased flow through existing
	Increase Flows: As outlined within the	culverts as practicable as well as other
	USACE EN-W Position Statement on WCA-	measures to increase the flow out of
	3A Regulation Schedule Modifications, 9	WCA-3A.
	September 2010 and within the March 4,	
	2011 [Everglades Restoration Transition	
	Plan] ERTP Draft [Environmental Impact	
	Statement] EIS, Corps reiterated the	
	importance of clearing the downstream	
	blockages of the S-12 structures, as well as	
	other measures to increase the flow out of	
	WCA-3A. Additional measures that need	
	to be addressed in the CEPP EIS include: 1)	
	clearing downstream of the S-12	
	structures, 2) removing as much as	
	possible of Old Tamiami Trail, and 3)	
	further degrading the L-28 levee. These	
	and other measures that might help need	
	to be planned and analyses in the CEPP EIS	
	and implemented at the soonest.	
M-TRIBE-26	Impact on Endangered Species Must be	Concur; the Corps strongly endorses
	Assessed-Multi-Species Approach Is	implementation of a multi-species
	Essential: The ERTP model for multi-	approach to restoration and water
	species management must be a guiding	management operations.
M-TRIBE-27	principle of CEPP.	The Corns asknowledges the week of
IVI-IRIBE-Z/	Restoration West of Shark River Slough	The Corps acknowledges the work of
	Must Begin: The [U.S. Fish and Wildlife	Bernhardt and Willard (2006) conclud-
	Service] FWS has officially decided, and a	ing that the western marl prairie was
	Federal Judge upheld the FWS decision, that at some point this area will be restored	wetter and historically; in addition, the
	·	Corps also acknowledges that modeling
	and be wetter. The Tribe, for the sake of its	has shown that this area will be wetter
	land and culture in particular, and	with CERP implementation; however,
	Everglades restoration in general, implores	the Corps has limited flexibility in re-
	the Corps to begin the of western Shark	moving the S-12A and S-12B gate clo-
	River Slough via both the COP and CEPP.	sures due to the status of the endan-
		gered Cape Sable seaside sparrow (CSSS) and its protection under the En-
		1
		dangered Species Act (ESA). This same

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		issue was brought before the 2007 Avi-
		an Ecology Workshop when it was sug-
		gested that CSSS emergency manage-
		ment measures cease and regulatory
		releases be allowed through the S-12
		structures during the CSSS nesting sea-
		son. This panel concluded:
		·
		"Given the extensive previous work on
		the water level requirements of the
		sparrow, the panel concludes that
		without mitigation this action in
		isolation is likely to result in extirpation
		of subpopulation A and is unclear as to
		what extent it will benefit or otherwise
		impact the other subpopulations or
		other endangered species. However,
		because of the interconnected
		structure of the subpopulations (see
		below) there may be unintended
		1
		subpopulations. Ultimately, if any
		action is expected to have a negative
		overall effect on the sparrow, its
		justification as a conservation measure
		would require a clear demonstration
		that there would be positive effects on
		other elements of the Everglades
		ecosystem." (Sustainable Ecosystems
NA TRUDE OO		Institute, 2007)
M-TRIBE-28	Decisive Action Required: The Colonel	The Corps intends to make a decision
	must make a final decision for COP based	once the hydrological and ecological
	on the best information available in spite of	analyses have been completed and the
	the misguided demands that some may	NEPA document has been coordinated
	have. No more "kicking the can down the	with the public.
	road." Another dead end excursion is not	
	an option for the dying Everglades. Bold,	
	decisive action that results in actual	
	restoration is essential for success.	
STATE		
FLORIDA DEPART	MENT OF AGRICULTURE AND CONSUMER SEI	
FDACS-1	First, the process for developing the CEPP	The future without project condition
	must clearly recognize the interim status of	includes the assumption that the
	the current Lake Okeechobee Regulation	Herbert Hoover Dike (HHD)
	Schedule; it would be inappropriate to	rehabilitation would be complete.
	assume that LORS08 [2008 Lake	However, the Dam Safety Modification

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
LETTER	AGENCY/PUBLIC COMMENT Okeechobee Regulation Schedule] schedule for either the With- or Without-Project scenarios. Planned repairs to the Herbert Hoover Dike should increase storage in the Lake, and the planning process should consider the availability of that additional storage in its analysis of project alternatives. Any additional demands on the Lake must be carefully evaluated in light of existing demands of both water users and the environment, as well as future demands from other CERP components (e.g., the C-43 Reservoir) that rely upon Lake water.	Report is not scheduled for completion until 2015. As such, the analyses of the reduction in risk to be achieved by the rehabilitation have not been assessed. It is recognized that the LORS is an interim schedule and that it is anticipated that the Lake Okeechobee regulation schedule will be reevaluated once rehabilitation has achieved a sufficient level of risk reduction. Any details regarding modifications to the Lake Okeechobee regulation schedule in the future are currently unknown. In the absence of having a revised schedule to include in the future without project condition, the LORS 08 schedule will be used. The CEPP study will not be the mechanism for changing LORS. Any change in the schedule will be the subject of a separate NEPA process at a later date. Evaluations of alternative plans for CEPP will consider use of the flexibility
FDACS-2	Second, the planning process must realistically deal with water quality considerations. The Comprehensive Everglades Restoration Plan (CERP) is built upon assumptions regarding water quality that we cannot continue to accept because water quality constraints can prevent the movement of additional water through the central part of the system. The in-lake phosphorus concentration for Lake Okeechobee is one such constraint, even if one assumes that the total maximum daily load (TMDL) for phosphorus will be met in the foreseeable future. Issues related to the Stormwater Treatment Areas (STAs) must also be addressed. Without resolving the legal and technical uncertainties characterizing the STAs as currently operated, it is hard to envision how additional water made available by the CEPP can be moved southward.	1

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
FLORIDA DEPART	IMENT OF ENVIRONMENTAL PROTECTION (FD	DEP)
FDEP-1	The Department [FDEP] believes that addressing water quality is one of the most critical components of this planning effort. The State of Florida is committed to addressing water quality with regard to the existing flows to the Everglades Protection Area consistent with the requirements of the state's phosphorus criterion. The Department requests that the Corps include, as part of the future without-project condition, the assumption that existing volumes of water will be treated to meet the objectives of the phosphorus criterion prior to discharge to the Everglades Protection Area.	The Corps concurs with these statements.
FDEP-2	With regards to this particular item [Risk Register], the Department recommends that the Corps maintain and provide a list of identified risks to the commenting agencies for their use in early issue resolution.	The risk register is a tool being used in the Pilot Planning Program as a means to identify, discuss and document issues early in the process. A risk register was developed by the study team to identify significant risks attributed to the shortened study period and to project success.
FDEP-3	the Department requests that the Corps use the existing quality of water flowing from Lake Okeechobee, and the delta between existing flows and future with project flows, through the central flow path as a basis for planning additional treatment, storage or other features identified as part of the expedited planning process. As with the treatment of existing flows, the Corps should assume that any new water flowing to the Everglades Protection Area will be required to be treated to levels consistent with the phosphorus criterion.	The Corps concurs with these statements.
FDEP-4	The Department suggests that the Corps work closely with the local sponsor to establish expectations regarding cost sharing on all new components, or modifications to existing components, that ultimately result from the expedited planning process. In particular, cost sharing expectations for water quality projects	New water is potentially available to be used for CERP purposes. The CEPP planning process will determine what water is available and what should be used for CERP purposes. Cost sharing recommendations will be in accordance with applicable law and policy.

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	need to be identified and resolved early on	
	in the planning process.	
FDEP-5	The Department requests that the Corps	The alternatives analyses will follow
	focus its planning efforts for storage and	NEPA requirements. Through the
	treatment projects on lands already owned	planning process, the Corps will draw
	by the District.	conclusions with regard to the use of
		lands already acquired for restoration
		purposes. The Corps understands that
		the state supports efforts sited on available lands and that the state
		considers those to be preferable for
		economic and other reasons.
FDEP-6	The Department suggests that an	The Corps concurs with this statement
T DET 0	evaluation of the implementation schedule	and these second generation CERP
	for second generation CERP projects that	components will be considered in CEPP
	may influence the CEPP should be carefully	planning process as part of the
	considered as part of the expedited	implementation plan.
	planning process.	
FDEP-7	Any future with-project condition scenario	For planning purposes, the MWD
	that includes features originally identified	project will be assumed to be complete
	under the MWD project should be	based upon those features already
	identified as being the sole responsibility of	completed and those features
	the federal government, with the exception	currently under construction. This
	of cost-share commitments made between	planning assumption is predicated
	the SFWMD and the Corps for operations.	upon the Corps, in consultation with
		DOI, first making a determination that the expected benefits for the MWD
		project have been achieved.
SOUTH FLORIDA	WATER MANAGEMENT DISTRICT (SFWMD)	project have been achieved.
SFWMD-1	Water Quality Requirements, Assumptions	Existing sources and quantities of
	and Cost-Share: Future Without Project	water to the natural system will be
	Condition – Existing Water Flows to the	identified. All water (existing and new
	Everglades Protection Area:	water) directed to the natural system
		will meet applicable water quality
	For the purposes of the Central Everglades	standards (i.e. 10 ppb long-term
	Planning Project, the District can only	geometric mean).
	support the Corps' assuming for the	
	"Future Without Project Condition" that	
	the District will treat current annual flows	
	of approximately 850,000 acre-feet of	
	water to a flow-weighted mean for total	
	response to the U.S. Environmental	
	phosphorus of 13 parts per billion (ppb). All facilities needed to treat existing inflows, as proposed by the State of Florida in	

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Determination, would be non-federally	
	funded.	
SFWMD-2	Water Quality Requirements, Assumptions and Cost-Share: Future With Project Condition – New Water Flows Identified by the Central Everglades Planning Project to the Everglades Protection Area: As part of its assumptions for the Central Everglades Planning Project, the Corps should use the existing quality of water flowing from Lake Okeechobee through the central flow path as a basis for planning additional treatment facilities. Consistent with the treatment of existing flows, the Corps should also assume that new water flowing to the Everglades Protection Area will be treated to 13 ppb total phosphorus.	Existing sources and quantities of water to the natural system will be identified. All water (existing and new water) directed to the natural system will meet applicable water quality standards (i.e. 10 ppb long-term geometric mean). New water is potentially available to be used for CERP purposes. The CEPP planning process will determine what water is available and what should be used for CERP purposes. The condition of the water in Lake Okeechobee will be considered and adequate treatment facilities will be included in alternative plans based upon the quality of lake water as it exists today. Cost sharing will be in accordance with applicable law and policy.
SFWMD-3	Use of Existing District-Owned Lands: To implement the initial increment of restoration for the central Everglades in an expeditious, cost-effective and commonsense manner, formulation of Central Everglades Planning Project features should be undertaken utilizing the lands already acquired by the District	Please refer to FDEP-5 response.
SFWMD-4	Inclusion of Specific Modified Water Deliveries to Everglades National Park Project Features: The District can support inclusion of these features in the "Future With Project Condition" only if the Corps identifies in the Central Everglades Project Implementation Report and Environmental Impact Statement that construction and operation of these features will be cost-shared in accordance with the terms and conditions of the Project Cooperation Agreement between the District and the Department of the Army to Improve Water Deliveries to Everglades National Park dated September 24, 1994 and its subsequent amendments.	For planning purposes, the MWD project will be assumed to be complete based upon those features already completed and those features currently under construction. This planning assumption is predicated upon the Corps, in consultation with DOI, first making a determination that the expected benefits for the MWD project have been achieved.

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	The District cannot agree to cost-share	
	construction and operation of these	
	features under the CERP authority, Section	
	601(e) of the Water Resources	
	Development Act of 2000.	
LOCAL		
LEE COUNTY (LC)		1
LC-1	Central to a healthy ecosystem in Lee	Concur; the Corps has included the fol-
	County is the protection and restoration of	lowing objective into CEPP:
	the Caloosahatchee River and Estuary, and	
	the beneficial management of Lake	"Reduce high volume discharges from
	Okeechobee. Specifically, the reduction of	Lake Okeechobee to improve the quali-
	high volume discharges from Lake	ty of oyster and SAV habitat in the
	Okeechobee to improve water quality of	northern estuaries."
	oyster and submerged aquatic vegetation	
	in the Caloosahatchee River and Estuary is	
	an objective long sought by Lee County.	
MIAMI-DADE CO	UNTY (MDC)	
MDC-1	The "fast-tracked" CEPP represents an	Concur, the Jacksonville District is
	opportunity to link together water quality,	excited that CEPP has been selected as
	storage, conveyance and seepage	a pilot project for the Corps expedited
	management components, to more	Planning Process Pilot Program. The
	holistically reverse ongoing decline in the	pilot program focuses the detail on the
	Everglades system and demonstrate	key drivers of the decisions that are to
	benefits, as compared to the standard	be made and reduces unnecessary
	compartmentalized and cumbersome	detail that results in a longer process
	planning process.	and one that may not deliver a better
		solution.
MDC-2	it is important that the scope of plan	Prior planning efforts and the
	formulation in CEPP be comprehensive,	development of scientific goals and
	both in geographic scale and in addressing	targets for CERP have led to a
	the three principal interests of Miami-Dade	determination that some components
	County in an integrated fashion: local and	are in fact interdependent features
	system wide ecological benefits, water	that necessitate formulation from a
	supply, and seepage management.	systems approach. Recently
		authorized CERP projects are
		"perimeter" projects that generally do
		not greatly depend upon or influence
		other CERP projects. However, the
		components in the Central Everglades
		are hydraulically connected from Lake
		Okeechobee to Florida Bay, and are
		reliant on one another for both inflows
		and outflows. These
		interdependencies require system plan
		formulation and analysis in order to
L	<u> </u>	iornidiation and analysis in order to

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		optimize structural and operational components, rather than formulating separable components that may not be compatible when looking at the cumulative impacts.
MDC-3	the scope of CEPP formulation should address: Water quality, ecological and hydrological benefits, including effects on plant community, habitat structure, and listed species and other wildlife in Florida and Biscayne Bays, as well as within WCA3a and b, and ENP.	The Corps concurs with this statement. As part of the NEPA analysis, a full assessment of potential effects on water quality, listed species and other wildlife and their habitat within CEPP project area will be conducted. Impacts in one area may be offset by habitat improvements in other areas of the system. Modeling and ecological planning tools will be utilized to perform these assessments.
MDC-4	the scope of CEPP formulation should address: Water quality and quantity with respect to Miami-Dade public wellfields, including surface groundwater interactions and saltwater intrusion, particularly during dry season or in prolonged drought, and in view of sea level rise projections.	In accordance with Section 601(h)(5) of the Water Resources Development Act (WRDA) 2000, CEPP will avoid any elim- ination or transfer of any existing legal sources of water beyond those existing in December 2000.
		Similar to previous CERP projects, a sea level rise evaluation will be conducted on the tentatively selected plan using a static scenario based GIS sea level rise mapping effort.
MDC-5	the scope of CEPP formulation should address: Flood protection under various canal stages and high water conditions, including operational criteria and modeling of distribution of peak stages and flows at critical gauges (such as S-357, S-338, S-196, S-194, S-380, C6-Palm, S-26 and T5) and at reference residential and agriculture lands.	In accordance with Section 601(h)(5) of the WRDA 2000, CEPP will avoid any impact to levels of service for flood protection beyond that existing in De- cember 2000.
MDC-6	Early public presentations about CEPP by USACE and SFWMD staff suggest that modeling tools for plan formulation will not address flood protection, water quality, wellfields, or Florida Bay and Biscayne Bay in detail or with defined "performance measures". This approach represents a serious concern to Miami-Dade. However, we believe that unnecessary delays and costs, caused by repeated modeling efforts,	The majority of the CEPP identified RECOVER approved PMs will be utilized with RSM output including performance measures for Florida Bay, Biscayne Bay and water supply for other water related needs. While the RSM is a regional scale model and results should be interpreted as such, the model does generate information for gauge locations and canals and this

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	revisions of alternatives, or challenges can be avoided by including all of the above issues from the outset in developing and evaluating a suite of restoration alternatives. This can be addressed in part through appropriate inclusion of subregional or local hydrologic dynamic models, particularly in areas where seepage management features are contemplated, and through extension of evaluation transects or targets to coastal transition zones and lands to the east of the L-30/31 boundary.	information will be used in CEPP. Through review of RSM calibration results, it is possible to identify differences in the modeled representation of gauges and canals of interest and the observed field responses. This will be helpful when evaluating changes in flood protection.
MDC-7	evaluation models should also be capable of addressing consensus sea level rise projections.	Similar to previous CERP projects, a sea level rise evaluation will be conducted on the tentatively selected plan using a static scenario based GIS sea level rise mapping effort.
MDC-8	It is also strongly recommended that CEPP build upon modeling tools, as wells as evaluation factors, including surrogates for water quality and hydrologic targets for tree islands and protected species, that have been developed or extensively reviewed by earlier Project Development Teams working on DECOMP [Decompartmentilization and Sheet Flow Enhancement], ERTP [Everglades Restoration Transition Plan], C-111 [Canal 111 Spreader Canal], and BBCW [Biscayne Bay Coastal Wetlands]	The CEPP will incorporate and build upon lessons learned for these previous projects.
MDC-9	Miami-Dade County also recommends that the scope of benefits and cost analyses in CEPP include non-traditional approaches, such as valuation of ecosystem "services" that may derive from restoration, such as savings on costs of flood protection or drinking water treatment, and economic benefits of recreational or aesthetic values of natural habitats, fish and wildlife.	CEPP will develop a methodology to capture the existing and future without project condition ecosystem services values for potentially impacted ecosystem service sectors in WCA-3A, WCA-3B and ENP. The marginal change in ecosystem services will then be evaluated for the recommended plan. The Ecosystem Services report will be provided separate from the Draft PIR/EIS after it has been through a review process.
MDC-10	we request that one or more CEPP public meetings or workshops directed at local stakeholders and their concerns be held in Miami-Dade and recommend that similar	The Corps will hold future public NEPA meetings throughout the study area to gather stakeholder input.

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	regional meetings be held in other local	
	jurisdictions south of Lake Okeechobee.	
PRIVATE	CUALL FOUNDATION OF FLORIDA FAVORONIAN	ETAL INICATELIZA (MANAGULALI)
	SHALL FOUNDATION & FLORIDA ENVIRONMN	
MARSHALL-1	Scoping should include more focus on CERP Table 5-1 Goals & Objections (pointing out what was now on the Conference Room Table). It seems like such focus would go a long way in meeting Susan Markley's concerns, also Laura Brant's concern about ecological considerations. Table 5-1 is still not in any of the written material / presentations other than what has been put on the conference table.	Table 5-1 of the Central and Southern Florida Project (C&SF) Restudy, lists two general goals for the south Florida ecosystem: enhance ecologic values, and enhance economic values and social well being. The goal of the CEPP is to improve the quantity, quality, timing and distribution of water in the Northern Estuaries, Water Conservation Area 3, and Everglades National Park in order to restore the hydrology, habitat and functions of the natural system. The CEPP team finds the project level goals and objectives to be consistent with the goals and objectives presented in Table 5-1 of the C&SF Restudy. The Corps will provide the PDT the crosswalk between CERP Goals and Objectives and the CEPP project objectives to provide additional clarity and include this information in
MARSHALL-2	The top level performance measure being considered by the CEPP scoping process per Table 5-1 objective 1 ought to be total increase in acres, of increase in total spatial extent of natural area. This would allow engagement of the Costanza Synthesis.	the PIR. A methodology will be developed to quantify the acreage of ecosystem benefits produced as a result of implementation of the tentatively selected plan. This methodology will utilize habitat unit (HU) scores produced from Habitat Suitability Indices (HIS) corresponding to each project performance measure. The project team is not planning on formulating to maximize ecosystem services, but is planning on putting together a work plan to capture resulting ecosystem services report will be provided separate from the Draft PIR/EIS after it has been through the review process.
MARSHALL-3	Before the presentations, I was going to ask	As the planning effort for the CEPP

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LETTER	how or what habitat units are assigned to various biomes [Stormwater Treatment areas; Ridge & Slough landscapes, flow-way for sheetflow; forested wetlands; reservoirs, etc.]. After the HU presentation, I think I am starting to get it. [More on this in next comments below].	continues, a methodology will be developed to calculate HU values for the study area. The HU are used as the basis to compare alternatives and identify a selected plan for ecosystem restoration projects. Typically, PM scores are aggregated and average to produce a habitat quality index. The PM scores are obtained from a hydrologic model and are indicators of conditions in the natural system that have been determined to be characteristic of a healthy restored ecosystem. The PMs scores cover all regions of the study area. The HIS is then multiplied by acreage to generate a HU for each alternative. Where necessary, additional tools or metrics may be utilized to supplement HU
MARSHALL-4	There is a lot of fuzziness about the CEPP boundaries (physical and fiscal). A regional CEM might sort out some of the fuzziness by establishing CEPP geographic boundary limits [consistent where CEPP construction costs will be incurred], while considering cause-effect upstream/down stream relationships [i.e., considering connectivity where all things are connected].	scores and assist in plan comparison. The study area for the CEPP encompasses the Northern Estuaries (St. Lucie River and Indian River Lagoon and the Caloosahatchee River and Estuary), Lake Okeechobee, a portion of EAA, the Water Conservation Areas, ENP, the Southern Estuaries (Florida Bay and Biscayne Bay), and LEC. Both structural and non-structural features or activities that address one or more planning objectives will be formulated for the study area. The PDT will utilize PMs to evaluate alternative plans. These PMs were developed from the Lake Okeechobee, Northern Estuaries and Greater Everglades Ridge and Slough Conceptual Ecological Models (CEM) which identify the major anthropogenic drivers and stressors on natural systems, the ecological effects of these stressors, and the best biological attributes or indicators of these ecological responses.
MARSHALL-5	Weighting methods are most times argumentative. The HU weighting scheme may prove difficult to explain to the public [and decision makers]. While the HU	The methodology recently developed for DECOMP PIR 1 to quantify ecosystem benefits weighted project performance measures relative to their

LETTED	AGENCY/PUBLIC COMMENT	CORDS DESDONSE
LETTER	approach may justify alternative selection [as stated earlier], it does not monetize the ecological benefits such that the benefits can be compared to costs [as the means to get to return on investment] for decision makers. On Fred Sklar's comment: That the Everglades is more complex, is an indication that a better approach to	importance in achieving the project objectives. This methodology may be used and/or adapted for the CEPP, however it is not anticipated that the same approach to weighting project performance measures will be used. Cost Effectiveness and Incremental Cost Analyses (CEICA) will be used to
	Synthesis is needed, understandable by OMB, Congress, and the public, and especially the National Research Council CERP Peer Review Panel.	determine the most cost effective plan.
DARLING WILDL OCEANOGRAPHIC CONSERVATION		ORIDA WILDIFE FEDERATION/FLORIDA RS OF FLORIDA/NATIONAL PARKS ENSE COUNCIL/SIERRA CLUB/SOUTH
NGOs-1	First, the CEPP must decompartmentalize a significant majority of Water Conservation Area (WCA) 3, improve the quality of water headed south, and help resolve seepage management issues to the east.	The goal of the CEPP is to improve the quantity, quality, timing and distribution of water in the Northern Estuaries, WCA-3, and ENP in order to restore the hydrology, habitat and functions of the natural system. In order to accomplish this goal, CEPP will examine potential components within the EAA, WCA-3 and ENP. The formulation of CEPP components will incorporate a "systems thinking approach" to ensure compatibility with CERP and any potential future updates to restoration goals and targets. Prior planning efforts and the development of scientific goals and targets for CERP have led to a determination that some components are in fact interdependent features that necessitate formulation from a systems approach. These interdependencies require system plan formulation and analysis in order to optimize structural and operational components, rather than formulating separable components that may not be compatible when looking at the cumulative impacts.
NGOs-2	to help expedite current planning efforts, the CEPP should build on data and tools developed in previous Decomp Project De-	The CEPP will build upon modeling and ecological evaluation tools utilized in previous CERP projects, including

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	livery Team (PDT) efforts. Incorporating	DECOMP PIR 1 in order to examine an
	previous planning efforts will allow CEPP to	array of management measures for
	move forward at a speed needed to provide	decompartmentalization of WCA-3A and to meet other CEPP objectives.
	a PIR by 2013. In particular, the CEPP should:	and to meet other CEPP objectives.
	 Incorporate the findings of the Decomp Physical Model as they be- come available in the next 18 months. 	
	 Explore including the Decomp hydropattern restoration feature (i.e. spreader canals) along the northern border of WCA 3A. 	
	Consider innovative partial backfill and plugging opportunities of the L- 67A and L-67C canals that could provide increased access and con- tinued fishing opportunities, while at the same time ensuring the ca- nals do not interfere with sheetflow in ways that have adverse ecologi- cal consequences, or result in ad- verse water quality impacts.	
	 Assess options to degrade, including by partially backfilling or plugging, the Miami Canal in order to allow water into WCA 3B. 	
	 Analyze options to degrade the L- 29 levee, including by way of new outlets and culverts. 	
	 Explore phasing alternatives for planned additional elevation and bridging of Tamiami Trail, using in- formation from the Department of Interior's November 2010 Tamiami Trail Modifications: Next Steps Final Environmental Impact Statement. 	
	 Evaluate the use of available levee material to recreate tree islands. 	
NGOs-3	CEPP must evaluate implementing increased storage, treatment and conveyance in the Everglades Agricultural Area (EAA). Specifically, we urge Corps to include the following in its CEPP scoping: • An evaluation of (1) the use of the	The Corps concurs with this statement and is currently developing management measures and screening criteria to determine the size and type of storage and treatment features within the EAA.

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	lands known as the A1 and A2 parcels, which were purchased by the federal government pursuant to the Talisman Land Acquisitions Grant Agreement, as storm water treatment areas (STAs) and (2) the potential replacement acreage of any acres used for STAs with lands or other options (as required under the grant agreement) that would enable increased water flows to the central Everglades and ENP including Florida Bay.	
	 An estimation of storage needed to enable increased water flows to the central Everglades and ENP includ- ing Florida Bay and a discussion of options to provide needed addi- tional storage. 	
NGOs-4	In order to manage increased flows, it will be necessary to include improved seepage management. Specifically, we urge the Corps to: Evaluate the miners' proposed L-31N seepage pilot project, designed to resolve significant seepage out of ENP.	The Corps concurs with this statement and is currently developing management measures and screening criteria to address seepage management concerns.
	 Evaluate whether additional seep- age components are needed to re- solve seepage out of the central Everglades and ENP. 	
NGOs-5	we recommend that the CEPP assess the operational changes occurring or being considered as part of the Everglades Restoration Transition Plan and the Combined Operations Plan. In particular, the CEPP should: Consider opening the S-151 structure to allow additional flow into WCA 3B.	Please refer to FWS-1 response.
	 Consider raising L-29 levels during short-term high-water emergen- cies. Evaluate the need for more appro- 	

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	priate water levels in WCA 3A, 3B,	
	and ENP, as opposed to stair-step	
	levels now often found moving	
	among the areas and damaging the	
NGOs-6	ecosystem. While the CEPP cannot take on the chal-	The Corps concurs with this statement
14003-0	lenges posed by the many related projects	and will review as appropriate the
	that are in operation or in planning stages,	status and operations of previous CERP
	it should review the status and operations	and non-CERP projects.
	of projects such as the 8.5 Square Mile Area	
	and C-111 Western and South Dade pro-	
	jects and highlight needed adjustments to	
	ensure that they meet their stated goals	
	and achieve ecological objectives.	
	JELTRACK CONSERVATION CLUB (DCFCC)	
DCFCC-1	We want to make sure that the recreational	Recreation will be considered as part of
	aspect of the area remains and that	CEPP. A recreational sub-team has
	recreational opportunities are not lost as a result of the project, particularly within	been formed to explore potential impacts on recreational opportunities
	northern WCA-3A.	as well as the potential for new
	Horthern Wod 3/1.	recreational access. The CEPP will also
		continue to be discussed at future
		Water Resources Advisory Commission
		Recreation meetings to engage
		stakeholders.
EVERGLADES COA		
EVCO-1	Resolution Supporting Central Everglades	The Corps appreciates the Everglades
	Planning Project	Coalition's endorsement of this project.
A STATE OF THE PARTY OF THE PAR	OWERS COOPERATIVE OF FLORIDA (SUGAR)	\[\lambda \]
SUGAR-1	While we support your efforts to streamline the process to produce a Project	A comprehensive evaluation of alternatives will be conducted for the
	the process to produce a Project Implementation Report (PIR), the desire for	CEPP; the Jacksonville District is excited
	expeditious completion of a PIR must not	that CEPP has been selected as a pilot
	outweigh the necessity for careful,	project for the Corps expedited
	comprehensive evaluation of alternatives,	Planning Process Pilot Program. The
	uninhibited by arbitrary or unrealistic	pilot program focuses the detail on the
	constraints and assumptions.	key drivers of the decisions that are to
		be made and reduces unnecessary
		detail that results in a longer process
		and one that may not deliver a better
		solution.
SUGAR-2	The planning scope must recognize that the	Raising water levels within Lake
	present Lake Okeechobee Regulation	Okeechobee would require substantial
	Schedule is an interim one necessitated by concerns with levee integrity. Additional	modifications to HHD. The Corps is currently conducting a project to
	water storage in the Lake should therefore	strengthen and secure the existing
	storage in the take should therefore	The control and seedle the conting

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
LETTER	AGENCY/PUBLIC COMMENT be evaluated as part of the project's alternatives analyses.	dike, and any increase in water levels would require a commensurate increase in the dike dimensions for human health and safety concerns. As stated in the 2008 LORS EIS, the Lake Okeechobee Regulation Schedule is interim and LORS will be revisited upon completion of HHD modifications. Higher water levels within Lake Okeechobee would also cause significant impacts to the littoral zone. The lake's natural resources are dependent on the littoral zone since it provides nursery areas, spawning areas, foraging areas, and roosting areas required for the completion of life cycles. The frequency and duration of inundation of the lake littoral zone
		would increase with higher lake levels under a revised regulation schedule. High lake stages result in loss of beneficial littoral zone plant communities in favor of introduced exotics (e.g., torpedo grass) as well as impacts to wading birds and other water-dependent wildlife.
SUGAR-3	While CERP used the Run 25 Lake Schedule, the WSE [Water Supply and Environment] Schedule was approved concurrent with CERP and should be used as the with-out project condition for the CEPP.	The Corps respectfully disagrees with the statement and intends to utilize LORS2008 as the existing and FWO condition. The Corps may undertake sensitivity analyses of the TSP in comparison to WSE to ascertain potential improvements to the plan under a revised Lake Schedule scenario. However, any analyses conducted during the study will not predetermine a change to the lake schedule that will be undertaken as a result of completion of necessary HHD rehab efforts or updates to System Operations Manual as a result of additional CERP project implementation.
SUGAR-4	Assumptions concerning water quality must be based in reality. To assume Lake Okeechobee water meets the TDML [Total	The CEPP planning process will determine what water is available and what should be used for CERP

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	Daily Mean Limit] for the lake, without any	purposes. The condition of the water
	project features on the horizon to	in lake as it exists today will be
	accomplish that, seems foolhardy. The	identified and adequate treatment
	TMDL is designed to meet a much reduced	facilities will be included in alternative
	load target for phosphorus flowing into	plans based upon the quality of lake
	Lake Okeechobee, not an in-lake	water as it exists today.
	concentration.	
SUGAR-5	Assuming that the without-project condition Stormwater Treatment Areas are meeting some un-defined target that's tied up in two federal court cases, and the new water made available by CEPP will meet that same unknown target is inappropriate. The CEPP should integrate water quality and water quantity planning to ensure the most effective use of available land resources and achieve the best balance among the four aspects of water flow essential to restoration-quantity, quality, timing and distribution. In evaluating the	The Corps concurs with the statement that integration of water quality and water quantity is a necessity for CEPP planning, and therefore is currently developing management measures and screening criteria to determine the size and type of storage and treatment features within the EAA.
	cost-effectiveness of various alternatives tradeoffs will be necessary, and the federal agencies must be prepared to make them.	
SUGAR-6	In considering increased storage, the examination of alternatives must be comprehensive. The Aquifer Storage and Recovery Projects (ASR) as envisioned by CERP have a compelling advantage over surface storage in avoiding loss of water due to evapotranspiration as well as having minimal land requirements.	Preliminary results from the ASR Pilot Study that is currently being finalized seem to indicate that ASR may be feasible in regards to possible toxicology issues, groundwater migration, etc. ASR will be evaluated as a management measure for the proposed project and will be considered for incorporation into alternatives dring plan formulation.
SUGAR-7	Another alternative for providing increased water storage that must be addressed is increased use of Lake Okeechobee for storage beyond that provided historically.	Please refer to SUGAR-2 response.
SUGAR-8	it is essential that the scope of the CEPP track very closely with the conceptual plans covered by Congress. With respect to the EAA, the actual footprint of the project in the final CERP document matches well with the land now owned by the District [SFWMD], and limiting the planning scope to that property meets the stated intent for the CEPP. Going beyond that footprint	Please refer to FDEP-5 response.

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	would trigger the need for a CERP Update	
	as specified in the Programmatic	
	Regulations and should not be part of this	
	plan.	
SUGAR-9	the scale of the Everglades flow values	It is highly unlikely that CEPP volumes
	now being discussed in some circles is well	exceed the flows projected from CERP.
	beyond anything contemplated in WRDA	It is much more likely that subsequent
	[Water Resources Development Act] 2000	restoration efforts will be required to
	and would clearly require a formal CERP	achieve the scale of water envisioned
	update. The Central Everglades Plan must	in CERP. Each PIR updates CERP.
	stay close to the flow volumes expected	
	with the plan approval in WRDA 2000.	
SUGAR-10	we remind the Corps that the savings	Correct, the savings clause analysis is
	clause imposes a constraint on plans based	performed subsequent to initial plan
	on conditions prevailing at the time of the	formulation efforts and TSP selection.
	enactment of WRDA 2000 and is an	Specifically, an analysis of the
	accounting calculation separate from the	elimination or transfer existing legal
	projections based on the present prevailing	sources and levels of flood protection
	situation and the future most-likely without	by TSP is performed before the plan
SUGAR-11	project conditionthe CEPP must include options that	can be recommended. The Corps will consider information
300AK-11	evaluate returning sheet flow to the Holey	from previous studies undertaken by
	Land and Rotenberger proprieties adjacent	the SFWMD to consider this option and
	to WCA-3A. To continue to isolate those	determine if applicable for inclusion in
	areas will require additional engineering	the CEPP
	features to flow water around, rather than	the seri
	through, those areas, and severely limit the	
	restoration of Everglades sheet flow over a	
	large portion of the historic Everglades.	
FLORIDA FARM B	UREAU FEDERATION (FFBF)	
FFBF-1	The intended purpose of the	The savings clause analysis is
	Comprehensive Everglades Protection Plan	performed subsequent to initial plan
	(CERP) within WRDA 2000 is the restoration	formulation efforts and TSP selection.
	and protection of the remaining Everglades	Specifically, an analysis of the
	while continuing to meet the water	elimination or transfer existing legal
	consumption needs of permitted users. The	sources and levels of flood protection
	stated scope of the CEPP is very vague in	by TSP is performed before the plan
	how the goal will be accomplished. The	can be recommended.
	vagueness along with the expedited CORP	
	[Corps] schedule provides concern that the	
	proper assurances will be in place to	
	minimize impact to landowners in the	
	region south of Lake Okeechobee.	
FFBF-2	Key to movement of additional water south	The Corps concurs with this statement
	is additional water storage. Thus far, the	and is currently developing
	CORPS operation of the current Lake	management measures and screening

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	Okeechobee Regulation Schedule has not	criteria to determine the size and type
	allowed the flexibility to increase water	of storage and treatment features
	storage for proper timing of additional	within the EAA.
	flows to the south. Without a noted change	
	in operation, the CEPP must denote	
	additional storage to create the proper timing needed to redirect water south.	
FFBF-3	Water quality has been an impediment to	Concur; the CEPP planning process will
1101-5	moving water into Everglades National Park	determine what water is available and
	and the current water conditions in Lake	what should be used for CERP
	Okeechobee must be considered within the	purposes. The condition of the water
	scoping process.	in lake as it exists today will be
		identified and adequate treatment
		facilities will be included in alternative
		plans based upon the quality of lake
		water as it exists today.
FFBF-4	Past single species management of	CEPP will include a multispecies
	Endangered Species such as the Cape Sable	approach to water management.
	Seaside Sparrow must be addressed within	
	the scoping process of the CEPP. Creating the mechanism to move water south only	
	to have it blocked from entering the	
	Everglades National Park will result in	
	ultimate failure and the potential to flood	
	lands in the EAA.	
FLORIDA WILDIFE	FEDERATION (FWF)	
FWF-1	As a member of the Everglades Coalition,	The Corps is currently developing
	we embrace the Coalition's recitation of	management measures and screening
	necessary projects and request that special	criteria to address seepage
	attention be paid to dealing with seepage	management concerns.
EVA/E 3	management issues.	The CERR has been added as a sile
FWF-2	In addition, we believe that the COE [Corps] should include in the scope of the CEPP a	The CEPP has been selected as a pilot project for the Corps expedited
	goal of delivering its recommendations in	Planning Process Pilot Program. A
	time to be incorporated into the federal-	Chief's Report to be submitted for
	budget cycle commencing in January 2014.	Congressional authorization is
	3 ,	anticipated to be complete by August
		2013.
FWF-3	In addition the Federation urges the COE to	The Corps supports reconnecting WCA-
	include in its design studies and make	3B as a functioning component of the
	recommendations about maintaining	Everglades ecosystem. Alternatives to
	freshwater-fishing habitat in Water	accomplish this will be evaluated
	Conservation Area 3B, the L-67 canals and	within CEPP.
	L-29 (Tamiami Trail) canal and public	
	access. We ask that this planning include consideration of creating depressions	As part of the Corps plan formulation
		and NEPA assessment process, system-

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	similar to alligator holes, slopes to establish	wide benefits and impacts (including
	"littoral zones" around borrow pits/canals,	impacts to recreation and wildlife) of
	and the use of fill to stabilize, re-generate	each alternative will be analyzed and
	or create tree islands mimicking the	compared in order to select a
	Everglades' natural ridge and slough	recommended plan.
	landscape. As the COE is aware, over the	
	years water has tended "to pond" in WCA	
	3B. This has resulted in establishing a	
	thriving bass fishery that South Florida	
	sportsmen have come to prize. The	
	proximity to urban South Florida, which	
	otherwise offers limited freshwater	
	recreational fishing opportunities,	
	enhances its recreational value. At this	
	point we believe that fishery enhances the	
	area for wading birds and wildlife and can	
	be incorporated into proposed projects	
	without harm to restoration goals.	
THE INSTITUTE F	OR ENVIRONMENTAL MONITORING (IEM)	
IEM-1	The federal register notice and online	There are several ways that up-to-date
	Central Everglades Planning Project (CEPP)	science will be included in the
	documents do not provide specific	planning, formulation, implementation,
	information about how best available	and continued adaptive management
	science will be incorporated into decision	of CEPP, including but not limited to: 1)
	making or into the hydrologic scenario	agency scientists including several
	generation/evaluation process.	members of the RECOVER science
		group were integral in setting goals,
		objectives, constraints, and PMs for
		CEPP; 2) PMs and modeling tools have
		been developed using the best
		available science; 3) model parameter
		settings are determined based on best
		available science to constantly improve
		the accuracy of model output for
		viewing alternative plans for CEPP; 4)
		several ecological planning tools
		developed by agency scientists may be
		used to view potential impacts of CEPP
		alternatives on species; 5) the Eco-
		subteam may develop qualitative
		ratings of CEPP alternative plans that
		will include current scientific
		understanding of the Everglades
		ecosystem; and 6) the Adaptive
		Management and Monitoring plan for
		CEPP will include monitoring to
		continually improve the scientific

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		understanding of the ecosystem and the effects of CEPP on it, as well as informing future decisions with the best scientific understanding of the ecosystem.
IEM-2	The Corp's Planning Process Transformation Pilot Program, upon which the CEPP EIS is based, appears to be an experimental and untested paradigm. We question the choice of the Everglades - a complex and highly degraded ecosystem - as a testing ground for this planning paradigm, given the potentially non-reversible nature of unsound decisions that could result from this process.	The Corps has continually heard from stakeholders that its planning process is overly detailed, expensive and that it takes too long; the amount of time and data being invested in studies are not leading to a better product or decision. As a result, the Corps is considering looking at ways to transform the planning process and fortunately, CEPP has been selected as a pilot project for this program. The pilot program focuses the detail on the key drivers of the decisions that are to be made and reduces unnecessary detail that results in a longer process and one that may not deliver a better solution.
IEM-3	CEPP scenario hydrology will apparently be generated by the South Florida Regional Simulation Model (RSM). CEPP documents provide insufficient detail about RSM calibration data, scenario generation, incorporation of biotic models in the evaluation process, and continued monitoring of key ecosystem components to provide assurances that science will continue to have an appropriate role in decision-making.	RSM calibration information will be made available through the CERP Data Access Storage and Retrieval (DASR) site or upon written request for those without DASR access. CEPP continues to provide information on plan formulation strategy and scenario generation through regular PDT meetings. The CEPP updates are also provided to stakeholders through the South Florida Ecosystem Task Force Working Group Sponsored Workshops, Water Resources Advisory Commission and SFWMD Governing Board meetings. The identified RECOVER PMS will be generated from the RSM to evaluate alternative plans. To make the correlation between hydrologic output and ecosystem functions, the project team will utilize PMs developed from the Lake Okeechobee, Northern Estuaries and Greater Everglades Ridge and Slough CEM. These CEM have been extensively peer reviewed and provide the framework for the

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		planning and assessment of CERP and
		are used to identify the major
		anthropogenic drivers and stressors on
		natural systems, the ecological effects
		of these stressors, and the best
		biological attributes or indicators of
		these ecological responses.
IEM-4	The documents do not discuss a mechanism	Wildlife species in CEPP area will be
	for how biotic assessments are to be	considered in several ways during the
	carried out, how alternative planning is to	planning of CEPP. Examples include:
	be developed based upon these	current scientific understanding of
	assessments, nor how scientific input from	species needs were strongly
	the expansive collection of biotic system	considered for the development of
	models developed as part of CERP are to be	performance measures that will be
	supported and incorporated in the EIS.	used by CEPP, and agency-developed
		ecological planning tools will be used
		to view potential impacts of CEPP
		alternatives on species, the Eco-
		subteam may develop qualitative
		ratings of CEPP alternative plans that
		will include species considerations, and
		the Adaptive Management and
		Monitoring plan for CEPP will include
		monitoring of the biotic system that is
		appropriate for showing effects of
		CEPP over time.
IEM-5	We are particularly concerned that	White-tailed deer and Florida panther
	monitoring has been discontinued or	are not monitored in the ecosystem-
	reduced for key components of the	wide CERP monitoring program
	Everglades biota (including white-tailed	("Monitoring and Assessment Plan or
	deer and the Florida panther in Everglades	MAP) but may be monitored by
	National Park) despite the fact that there is	individual restoration projects within
	still insufficient understanding of these	CERP. For example, CERP's Picayune
	species responses to accurately project the	Strand restoration project includes
	impacts of hydrologic changes on their	monitoring for Florida panther and
	populations. For those species still being	white-tail deer. The interagency CEPP
	monitored, no central data repository has	team will consider the interest in
	been established, although such a	white-tailed deer, panther, and other
	repository was a major element in CERP	key biota during the development of
	planning to provide for continued	CEPP's monitoring program.
	incorporation of best available science into	
	models.	Repository for monitoring data:
		The CERP Integrated Database (CID)
		has been developed to house, or
		connect to, all hydrologic and ecologic
		monitoring data for CERP that cannot
		be housed in the SFWMD's DBHydro
		be housed in the SFWMD's DBHydro

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LETTER	AGENCY/PUBLIC COMMENT	database. Information in CID is accessed through the user interface named "EverGlades Restoration data Extraction Tool" (EGRET). EGRET is a GIS mapping application that shows CERP monitoring project locations and provides access to associated data. EGRET allows for data queries by spatial parameters or type of data. Project abstracts and data tables can be viewed within the application, or be exported to .csv files for further use. Access to EGRET is only available to the CERP partner agencies through the CERPZone. All RECOVER partnering
		agencies and CERP Projects are in the process of adding data into the database as resources become available.
IEM-6	Shortening the time period for management decision-making for CEPP relative to the CERP process makes the transparent incorporation of best available science and continued monitoring to assess biotic impacts all the more urgent.	The Corps concurs with this statement.
FLORIDA CRYSTA	LS CORPORATION (CRYSTALS)	
CRYSTALS-1	Scoping is Premature in the Absence of a Specific Proposal: To date, the Corps has not proposed any specific plan for the CEPP. While these comments are meant to provide constructive, meaningful input into the CEPP, in light of the lack of a specific project at this point, we reserve the right to supplement these scoping comments in the future.	The Corps respectfully requests your continued participation and feedback throughout the CEPP planning process.
CRYSTALS-2	The Corps Should Clarify Which CERP Projects Are Part of the CEPP: It is important that The Corps clearly define which projects from the 1999 Approved Plan are included in the CEPP. Moreover, the Project Implementation Report will have to demonstrate that the CEPP design is "consistent with the [1999 Approved] Plan," 33§CFR 385.26(a)(3)(i), and "[i]nclude a discussion of any significant	The scope of the CEPP will include increments of the following components that were part of the Yellow Book Plan: Everglades Agricultural Storage Reservoirs (G)Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement (AA, QQ and SS)

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	changes in cost or scope of the project from that presented in the "Final Integrated Feasibility Report and Programmatic Environmental Impact Statement,' dated April 1, 1999," id(a)(3)(xiii).	 Dade-Broward Levee/Pennsuco Wetlands (BB) Bird Drive Recharge Area (U) L-31N Improvements for Seepage Management and S-356 Structures (V and FF) Everglades Rain-Driven Operations (H)
CRYSTALS-3	The Corps Should Limit the CEPP to the Scope Approved by Congress in WRDA 2000: It would be inappropriate for the Corps to design a project that would significantly depart from the 1999 Approved Plan in the Project Implementation Report for the CEPP. In the particular case of the Everglades Agricultural Storage Reservoirs (G)' project, it would be improper for the agency in the CEPP to develop a proposal, and analyze alternatives to such a proposal, that would call for significantly larger land footprints in the EAA.	The purpose of the CEPP is to improve the quantity, quality, timing and distribution of water flows to the central Everglades (WCA 3 and ENP). Utilizing the Incremental Adaptive Restoration (IAR) approach recommended by the National Research Council (NRC) and new science and technological information gained to date, the CEPP will be composed of increments of project components that were identified in the CERP Comprehensive Review Study (Yellow Book), reducing the risks and uncertainties associated with project planning and implementation. The term "increment" is used to underscore that this study will formulate an initial portion of individual CERP components. It is envisioned that later studies will further refine this "increment" and develop subsequent CERP components to achieve the level of restoration envisioned for CERP. This study approach is consistent with the recommendations from the NRC to utilize IAR to both achieve timely, meaningful benefits of CERP and to lessen the continuing decline of the Everglades ecosystem. Prior planning efforts and the development of scientific goals and targets for the CERP have led to a determination that some components are in fact interdependent features that necessitate formulation from a systems approach. Recently

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		authorized CERP projects are "perimeter" projects that generally do not greatly depend upon or influence other CERP projects. However, the components in the Central Everglades are hydraulically connected from Lake Okeechobee to Florida Bay, and are reliant on one another for both inflows and outflows. These interdependencies require system plan formulation and analysis in order to optimize structural and operational components, rather than formulating separable components that may not be compatible when looking at the cumulative impacts.
CRYSTALS-4	Congress Approved a Specific Plan in WRDA 2000, and the Corps Lacks Authority to Go Beyond That Plan:	Please refer to CRYSTALS-2 and CRYSTALS-3 responses.
CRYSTALS-5	The Corps Cannot Prepare a Project Implementation Report If There Will Be Significant Changes to the CERP Projects:	Please refer to CRYSTALS-2 and CRYSTALS-3 responses.
CRYSTALS-6	Significant Changes to CERP Projects in the CEPP Will Require Additional Programmatic NEPA Compliance:	Please refer to CRYSTALS-2 and CRYSTALS-3 responses. An integrated PIR/EIS will be prepared for CEPP.
CRYSTALS-7	Proposed Planning Constraints and Performance Measures Should Be Revised: A. Lake Okeechobee Water Storage and Operations It would be inappropriate for the CEPP to make LORS 2008 a planning constraint for the CEPP. First, it would be inconsistent with the 1999 Approved Plan. Second, using LORS 2008 as a planning constraint for the CEPP would be inconsistent with the regulation schedule itself. Third, making LORS 2008 a planning constraint would violate Savings Clause of WRDA 2000. The only valid approach for the CEPP would be to allow for changes in the Lake Okeechobee Regulation Schedule as	Please refer to FDACS-1 response.

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	necessary to achieve project objectives. To	
	summarize, the Without-Project Condition	
	must assume either the WSE or Run 25	
	regulation schedules are in effect, while the	
	With-project Condition can utilize the WSE	
	schedule, or a proposed new schedule	
	recommended by the CEPP.	
CRYSTALS-8	Proposed Planning Constraints and	The CEPP planning process will
	Performance Measures Should Be Revised:	determine what water is available and
	B. Water Quality	what should be used for CERP
		purposes. The condition of the water
	The role of water quality standards in the	in lake as it exists today will be
	CEPP needs to be reconsidered. The CEPP	identified and adequate treatment
	plans also need to be developed based	facilities will be included in alternative
	upon the actual quality of water in Lake	plans based upon the quality of lake
	Okeechobee.	water as it exists today.
CRYSTALS-9	Proposed Planning Constraints and	Planning constraints protecting existing
	Performance Measures Should Be Revised:	sources of water, consistent with
	C. Water Supply	federal and state law, have been
		included in CEPP. In addition, a new
	Assuring adequate water supply for existing	goal and objective has been added to
	and future uses should be a planning	CEPP to address water supply for other
	constraint for the CEPP.	water related needs. Specifically the
		new goal reads, "Enhance Economic
	There should also be a performance	Values and Social Well Being", while
	measure that evaluates the extent to which	the objective is to "Increase availability
	the CEPP alternatives increase water	of fresh water
	supplies for users other than the natural	(agriculture/municipal/industrial)".
	system.	Corresponding PMs to evaluate the
		ability to meet existing and future uses
CRYSTALS-10	Proposed Planning Constraints and	will be applied during plan formulation.
CR131AL3-10	Proposed Planning Constraints and Performance Measures Should Be Revised:	Planning constraints protecting existing levels of flood protection, consistent
	D. Flood Protection	with federal and state law, have been
	D. Flood Frotection	included in CEPP. Key metrics will be
	A planning constraint for flood protection	evaluated during plan formulation to
	therefore would be appropriate for the	identify potential changes,
	CEPP.	improvements or declines in flood
	SETT.	protection. A more thorough analysis
	The CEPP should include as a performance	will be performed on TSP.
	measure the degree to which proposals	The portonines on For
	improve flood protection.	
CRYSTALS-11	Proposed Planning Constraints and	The Corps agrees that economic and
	Performance Measures Should Be Revised:	social disruption should be a
	E. Economic and Social Disruption	consideration during the planning
		process and feature siting analysis, and
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LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Consistent with the Reconnaissance Report,	any impacts to agricultural production
	the CEPP should include minimization of	and tax rolls will be identified.
	economic and social disruption as a	
	planning constraint, using the proxy of	
	reduced agricultural production and	
	property removed from the tax rolls.	
CRYSTALS-12	Alternatives:	Please refer SUGAR-2 response.
	the Corps should consider opportunities	
	for additional water storage in Lake	
	Okeechobee.	
CRYSTALS-13	Alternatives:	Please refer to SUGAR-11 response.
	the Corps should consider	
	restoration/rehydration of the Holey Land	
	and Rotenberger Wildlife management	
	Areas. These lands are publicly-owned by	
	the State of Florida and are perfectly	
	positioned to store and release water	
	needed for the restoration of WCA-3A and	
	Everglades National Park. At a minimum,	
	the CEPP should consider restoring	
	sheetflow to those areas, since they are	
	located immediately north of WCA 3A.	
CRYSTALS-14	Alternatives:	The CEPP planning process will
	to the extent that the CEPP concludes	determine what water is available and
	that Lake Okeechobee water will need to	what should be used for CERP purposes
	be treated before delivery to the WCAs, the	for the next increment of restoration.
	CEPP should consider a wide variety of	The condition of the water in lake as it
	alternative ways to treat that water. For	exists today will be identified and
	each alternative treatment option, analyses	adequate treatment facilities will be
	should evaluate the effectiveness of each	included in alternative plans based
	treatment option in reaching target	upon the quality of lake water as it
	phosphorus levels, the true long-term cost	exists today.
	of each option, and the resulting effects on	
	the Northern Estuaries associated with	
	greater and lesser flows from the lake	
	associated with the effectiveness of	
	different options.	
PRIVATE CITIZENS		
CITIZEN-1;	No future bridging projects on ModWaters	Comment forwarded to Modified
Comment 1	should be done without emergency pull-off	Water Deliveries project managers.
	lanes for U.S. 41 motorists within a	
	construction zone.	
CITIZEN-1;		
	One thing that is worrisome is the	The Corps has continually heard from
Comment 2	One thing that is worrisome is the expedited process and reducing the level of	The Corps has continually heard from stakeholders that its planning process

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		takes too long; the amount of time and data being invested in studies are not leading to a better product or decision. As a result, the Corps is considering looking at ways to transform the planning process and fortunately, CEPP has been selected as a pilot project for this program. The pilot program focuses the detail on the key drivers of the decisions that are to be made and reduces unnecessary detail that results in a longer process and one that may not deliver a better solution.
CITIZEN-2	THERE IS ONE EVERGLADES. THATS IT! We believe a few very important points are vital to the glades health. #1, The Urban Development Boundary Dade Co. must remain where it is. #2, The dike around the Lake will NOT break free as proposed by people. A waste of money to repair. It isn't the ocean, and even a severe 'cane won't provide waves like it would in an ocean! New Orleans simply caused this panic! The rim canal would barely be affected. It's a ridiculous notion! I bring this up because of the wasteful funds it could use up. #3, we don't want TOO much water where there shouldn't be much and vice versa! land animals need dry land! #4, the "glades people" although very important, may have to adapt IF this affects them negatively! A few people, although very important, sometimes have to sacrifice livelihood for the greater good of something greaterTHE GLADES AND EARTH'S FUTURE! #5, I'm hoping, having worked there, that Arch Creek, one of only a few natural rivers left, and of extreme historical significance, can once again flow! Its stagnant still, last I heard, and this should be of utmost importance—to let it flow	1. This is outside the Corps' authority. 2. The primary compilation of information and documentation of the condition of the dike was prepared in the 2000 HHD Major Rehabilitation Report. The original plan for Reach 1 rehabilitation was developed before Hurricane Katrina's devastating impact on levees in New Orleans in August 2005. Even though construction had begun on Reach 1, it was determined lessons learned in Katrina's aftermath should be used to ensure that the HHD would continue to protect lakeside communities. In 2006 and 2007 Independent Technical Review (ITR) panels were convened to review the structural integrity of the HHD and aid in developing a long-term solution for rehabilitation. The findings of the ITR panels confirmed the Corps' earlier findings that the HHD is in need of rehabilitation. 3. The impoundment of the natural system and construction of drainage and conveyance has disrupted the annual pattern of rising and falling water depths in the remaining
	againit's a polluted mess! It would bring a lot of happiness and add a little touch of personality to the CERP program! How will the Cape Sable Sparrow fare?	wetlands. Hydropatterns have been disrupted causing the erosion of valuable tree islands and the once uniform system is now too wet in some areas and too dry in others. One

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		objective of the CEPP is to restore seasonal hydroperiods and freshwater distribution to support a natural mosaic of wetland and upland habitat in the Everglades system. 4. Traditional cultural practices, cultural resources and recreation will all be considered during CEPP planning process. 5. Although listed on the National Register of Historic Places, Arch Creek is outside the CEPP project area and area of potential effects for cultural resources. 6. A thorough evaluation of endangered species needs, impacts and benefits will be conducted under CEPP.
CITIZEN-3	We welcome the Corps and other agencies' push to "move water South" at long last, having studied the issues since the early 1980s. I note that SFRestore's "New" science "discovery" repeats what the Corps has known at least since its independent scientist panel published the Reconnaissance Report in 1994. CERP Table 5-1 "Goals and Objectives" applies just as much today as it did when adopted in 1999 and should be followed. That seems to be the major flaw in the current CEPP: not restoring the natural flow instead of relying on new engineered "plumbing" projects. Without restoring the pond apple forest and the sawgrass sheet flow through the "River of Grass", we'll never achieve cleaning enough nutrients out of the water as it moves South to make it suitable for re-charging the Everglades.	The goals and objectives developed for the CEPP are fully consistent with those that were developed for the CERP. In regards to the restoration of the natural, or rather historical flow of the Everglades and system attributes, Section 385.8(c) of the Programmatic Regulations states that: "The restored South Florida ecosystem will be significantly healthier than the current system; however it will not completely replicate the undisturbed South Florida ecosystem and some areas may more closely replicate the undisturbed ecosystem than others." Although the CEPP is intended to restore, preserve, and protect the South Florida ecosystem while providing for other water-related needs of the region, including water supply and flood protection, it is accepted that a fully restored south Florida ecosystem may not completely resemble the historical Everglades as a whole. Restoration of a pond apple forest and sawgrass plain is outside of the scope of planning for the next increment of the CERP features under

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		consideration will be given to compatibility of CEPP features to
		future increments of these CERP
		components.
CITIZEN 4		
CITIZEN-4	I'm concerned that the Environmental Justice issues may not be adequately included in the plans for each project. With this in mind: What efforts are planned for the evaluation and management of the Environmental Justice issues for each project? How are the low income and minority communities impacted by each project being considered and compensated?	Environmental Justice will be assessed as part of NEPA process. The Corps plans to utilize the CERP Ethnographic Study to identify and address potential adverse impacts to minority and low income populations. Each CEPP alternative will be designed and analyzed to consider the plan that best meets the overall project objectives while identifying and addressing any disproportionate adverse impacts.
CITIZEN-5; Comment 1	As the only family thus recognized with a designation as a TCP [Traditional Cultural Property] by the CERP project by the Army Corps, we are truly concerned for the health of our Everglades, the River of Grass. All flora and fauna, likewise our family and our eight children depend on the health of this precious ecosystem. We've done our best to maintain and improve the health of our resources. The changes to be imposed around my family's dwelling are of great concern, especially for the next generation of the Gladesmen. We need to know that our traditional cultural ways of life will continue so as to be the bearers of a culture not to be forgotten by the wayside of progress in the name of restoration. The children of the Everglades rely on our decisions today for their cultural rights of tomorrow.	Impacts to historic sites and traditional cultural properties and practices will be assessed as part of NEPA and the National Historic Preservation Act process. Each CEPP alternative will be designed and analyzed to consider the plan that best meets the overall project objectives while minimizing adverse impacts.
CITIZEN-5; Comment 2	With reference to the hydroperiods, the definitions you guys are going by, I'd like to know whether they're based on historic data or if they're based on current flow chart data and whether or not if they're for primarily, basically municipal demand?	Hydroperiods throughout the majority of the Everglades are based upon historical data of predrainage conditions except in areas where deviations have been deemed ecologically beneficial (Loxahatchee Wildlife Refuge, marl marshes and Corbett Wildlife Management Area) and are not based upon municipal

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		demand. Hydroperiod targets differ
		throughout the Everglades landscape
		based upon the ecological community
		to be restored. For example, a wet
		prairie will have a shorter hydroperiod
		requirement than an aquatic slough.
CITIZEN-5;	With reference to the surface water, what	The project will not attempt to
Comment 3	depths of the surface water are you talking	maintain a specific depth throughout
	about holding within the conservation	the water conservation areas. Water
	areas and for what durations of time? It	depths within the water conservation
	says on one of your boards that it's in order	areas will vary according to ground
	to diminish the damage to tree islands and	surface elevation, time of year, and location within the system. For
	reduce fire frequencies. Fires are cleansing for the Everglades. They remove invasive	location within the system. For example, average water depths within
	exotics and give the natural flora a chance	water lily-dominated slough
	to re-procreate. So how do you plan to	communities should be between 2 to 3
	mitigate seasonal sheetflow and what is the	feet during the wet season (June-
	maximum depth of surface water going to	October) and approximately 1.5 to 3
	be?	feet during the dry season (November-
		May). Similarly, hydroperiods will also
		vary according to the ecological
		community to be restored. For
		example, accretion of peat soils typical
		of ridge and slough landscape requires
		prolonged flooding, characterized by
		10 to 12 month annual hydroperiods;
		while muhly grass-dominated marl
		prairies are characterized by a
		hydroperiod of 3 to 5 months. Water
		depths will also vary by season and
		year based upon hydro-meteorological
		and climatological conditions.
		The improvedment of the column
		The impoundment of the natural system and construction of drainage
		and conveyance has disrupted the
		annual pattern of rising and falling
		water depths in the remaining
		wetlands. Hydropatterns have been
		disrupted causing the erosion of
		valuable tree islands and the once
		uniform system is now too wet in some
		areas and too dry in others. Prolonged
		hydroperiods and water depths,
		particularly within southern WCA-3A,
		have led to degradation of tree islands
		and shifts in plant communities from

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
LETTER	AGENCY/PUBLIC COMMENT	wet prairies to open water sloughs. Shortened hydroperiods, particularly within northern WCA-3A, have directly affected plant communities by enabling invasion of nuisance native (e.g. willow) and exotic (e.g. melaleuca, Brazilian pepper) plant species and altering plant community species composition. Restoration is focused instead on reducing the frequency of peat fires, which can cause long-term destruction of the important ridge-slough pattern. Exacerbated by prolonged dry seasons due to shortened hydroperiods, fires that are too frequent or severe can further alter plant communities, lead to loss of peat soils and native hardwood species and can promote the spread of exotics (e.g. Melaleuca releases seeds as a result of fire).
CITIZEN-5; Comment 4	How do you define wildlife utilization? One of your charts out there mentions that a lot of the study is based on wildlife utilization. I don't understand the definition or how you guys define wildlife utilization.	Wildlife utilization is defined as the use of the landscape by wildlife species. It is another way of asking: Is the habitat suitability of the Everglades for a diverse population of wading birds, mammals, fish, amphibians, etc. improving? One objective of the Central Everglades Planning Project is to reduce water loss out of the natural system to promote appropriate dry season recession rates for wildlife utilization. For example, wading birds, including the endangered wood stork, nest during the dry season and rely upon a seasonal pattern of drying wetlands to concentrate prey items. By reducing water loss out of the natural system and promoting appropriate dry season recession rates, areas of appropriate water depths for feeding would be available and wildlife utilization would be expected to increase.
CITIZEN-5; Comment 5	It makes mention of increases in productivity in the north estuaries, both of the oyster beds and the sea grass. I was wondering, are there considerations in	The restoration goal is to re-establish salinity regimes suitable for the maintenance of healthy, naturally-diverse and well-balanced estuarine

place for the bordering reefs and the other marine habitats in the scope of these projects because the bordering reefs and the other marine wildlife beyond the oyster beds and the sea grass are much — equally, if not much more vital, to the overall ecosystem. That's the final piece of the ecosystem the Everglades touches. CITIZEN-5; Comment 6 I'd like to know what the timeline is for this significant increase in aquatic food chain. Also, why is there no mention of the animal population increase of land-requiring animals, such as mammals, deer, panthers, foxes, things of that nature? It all makes reference to aquatic animal life. It makes no mention whatsoever of animals that require dry land. CITIZEN-5 Comment 6 I'd like to know what the timeline is for this significant increase in aquatic food chain. Also, why is there no mention of the animal population increase of land-requiring animals, such as mammals, deer, panthers, foxes, things of that nature? It all makes no mention whatsoever of animals that require dry land. Comment 6 Comment 6 I'd like to know what the timeline is for this significant increase in aquatic food chain. Also, why is there no mention of the animal population increase of land-requiring animals, such as mammals, deer, panthers, foxes, things of that nature? It all makes no mention whatsoever of animals that require dry land. Comment 6 Comment 6 I'd like to know what the timeline is for this significant increase in aquatic food webs are sentoration. By restoring appropriate hydrologic conditions, tree islands and other short hydroperiod environments (e.g. marl prairie) will be restored and thereby provide suitable habitat for both wetland and upland species. Within the project area, there are over 50 Federally-listed threatened and endangered species, including Florida panther, eastern indigo snake; Audubon's crested caracara and Everglade snail kite. These species depend upon both wetland and upland habitat and their needs will be incorporated into the Central Everglades Planni	LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN-5; Comment 6 I'd like to know what the timeline is for this significant increase in aquatic food chain. Also, why is there no mention of the animal population increase of land-requiring animals, such as mammals, deer, panthers, foxes, things of that nature? It all makes reference to aquatic animal life. It makes no mention whatsoever of animals that require dry land. The timeline is for this significant increase in aquatic food chain. Also, why is there no mention of the animal population increase of land-requiring animals, such as mammals, deer, panthers, foxes, things of that nature? It all makes reference to aquatic animal life. It makes no mention whatsoever of animals that require dry land. The timeline for the CEPP is to restore seasonal hydroperiods and freshwater distribution to support a natural distribution to support a subsence of within the Everglades system. Tree islands and upland support a natural mosaic of wetland and upland support a diverse array of upland (land-requiring) species and are an important focus of Everglades restoration. By restoring appropriate hydrologic conditions, tree islands and other short hydroperiod environments (e.g. marl prairie) will be restored and thereby provide suitable habitat in the Everglades restoration. By restoring appropriate hydrologic conditions, tree islands and other short hyd		marine habitats in the scope of these projects because the bordering reefs and the other marine wildlife beyond the oyster beds and the sea grass are much equally, if not much more vital, to the overall ecosystem. That's the final piece of the	will require reducing canal discharges (including regulatory releases from Lake Okeechobee) and insuring sufficient dry-season flows necessary to avoid ecologically damaging high and low salinity extremes. Oysters, sea grasses, bordering reefs and other marine habitats will all directly benefit from restoration of appropriate salinity
Implementation of the plan will then	1	significant increase in aquatic food chain. Also, why is there no mention of the animal population increase of land-requiring animals, such as mammals, deer, panthers, foxes, things of that nature? It all makes reference to aquatic animal life. It makes no mention whatsoever of animals that	One objective of CEPP is to restore seasonal hydroperiods and freshwater distribution to support a natural mosaic of wetland and upland habitat in the Everglades system. Tree islands support a diverse array of upland (land-requiring) species and are an important focus of Everglades restoration. By restoring appropriate hydrologic conditions, tree islands and other short hydroperiod environments (e.g. marl prairie) will be restored and thereby provide suitable habitat for both wetland and upland species. Within the project area, there are over 50 Federally-listed threatened and endangered species, including Florida panther, eastern indigo snake; Audubon's crested caracara and Everglade snail kite. These species depend upon both wetland and upland habitat and their needs will be incorporated into the Central Everglades Planning Project. The aquatic food web is mentioned because fish, amphibians and other aquatic species serve as essential prey resources for many larger predators such as those mentioned within the ecosystem. The timeline for the CEPP is to have a recommended plan for Congressional approval by August 2013.

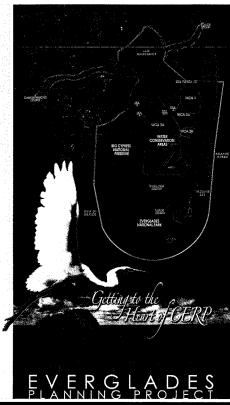
LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		authorization and funding. The timeline for actual increase in the food chain as a function of restoration (if that is what you were asking) will be estimated for each simulated/modeled alternative plan from a suite of environmental PMs.
CITIZEN-5; Comment 7	I'm all for the increase of water quality. But at what cost economically and environmentally?	Water quality must meet all applicable state and federal water quality standards prior to its discharge from EAA into the Water Conservation Areas and ENP.
CITIZEN-6; Comment 1	I do have a lot of concerns here in the name of restoration we could destroy the whole thing, and I know at one point there was a lot of concern about the amount of water that people were going to put out there, and the Everglades, it's not only how much water you put out there, but it's how long you hold the water.	The project will not attempt to maintain a specific depth throughout the water conservation areas. Water depths within the water conservation areas will vary according to ground surface elevation, time of year, and location within the system. Similarly, hydroperiods will also vary according to the ecological community to be restored.
CITIZEN-6; Comment 2	Concerned with putting a discharge canal on the south side of the L-5 levy. That would impact hundreds if not thousands of acres and cut off recreational access to the area.	The CEPP planning process is in the initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed. Recreation is one component that will considered as part of CEPP. A recreational sub-team has been formed to explore potential impacts on recreational opportunities as well as the potential for new recreational access. A recreational plan will be developed as part of CEPP to mitigate some potential impacts. CEPP will also continue to be discussed at future Water Resources Advisory Commission Recreation meetings to engage stakeholders.
CITIZEN-6; Comment 3	Concerned with filling of Miami River and loss of natural tree species that have been planted along the banks and loss of wildlife that depends upon it.	The CEPP planning process is in the initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed.

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CITIZEN-6;	We're not here to work against this project,	The Corps appreciates and welcomes
Comment 4	but to work with you to make sure it's	your participation in CEPP planning
	implemented properly.	process.
CITIZEN-6;	The Everglades is not meant to be a	The goal of the CEPP is to improve the
Comment 5	reservoir. I was involved in the Everglades	quantity, quality, timing and
	Agricultural Reservoir on that project, and I	distribution of water in the Northern
	know there was litigation over it to stop the	Estuaries, Water Conservation Area 3,
	project. We're all for that project. We're	and ENP in order to restore the
	for the STA's. That puts more tools in your	hydrology, habitat and functions of the
	box, so you can, you know, put the water	natural system.
	into the area more naturally, and we're all	
	for those projects.	
CITIZEN-6;	We've lost probably 60 percent of our tree	Please refer to Corps Response to
Comment 6	islands due to either too much water or too	CITIZEN- 5, Comment 6.
	little water. So it's important to get the	
	hydrology right. We've seen too much	
	water; you kill off all the fur-bearing	
	animals. You kill off all the hardwood trees.	
	We've seen that happen firsthand. Too	
	little water, we have these muck fires, and	
	then everything burns down to the cap	
CITIZEN	rock, and it's really a sad thing to see.	B
CITIZEN-6; Comment 7	Concern with loss of public recreational abilities.	Recreation is one component that will
Comment /	abilities.	considered as part of CEPP. A recreational sub-team has been
		formed to explore potential impacts on
		recreational opportunities as well as
		the potential for new recreational
		access. A recreational plan will be
		developed as part of CEPP to mitigate
		some potential impacts. The CEPP will
		also continue to be discussed at future
		Water Resources Advisory Commission
		Recreation meetings to engage
		stakeholders.
CITIZEN-7	We're very concerned about the bridging	The Corps will assume for FWO
	and would like to know what level of	condition that the Tamiami Trail Next
	bridging we're going to have. It appears to	Steps Project, which includes an
	be from the comments of some of the	additional 5.5 miles of bridging along
	people here that there's a lot of concern	Tamiami Trail, will be completed. As
	about the flooding and the fact that water	part of the CEPP alternatives analysis,
	is backing up, and of course the solution to	some increment of bridging (in
	that is the bridging so that water can flow	addition to the 1-mile bridge currently
	into Everglades National Park rather than	under construction) will be included.
	backing up on Tamiami Trail. So we think	

LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	it's very important that this process include	
	successful bridging so that we can get	
	water moving south. We can do everything	
	up north, but, if we can't get the water past	
	Tamiami Trail, it's not going to do	
	Everglades National Park any good.	
CITIZEN-8	We have a lot of confidence that two years	Concur, the Corps is excited that CEPP
	is adequate time to get something good	has been selected as a pilot project for
	going and build it and when we get these	the Corps expedited Planning Process
	systems running we can fine tune them and	Pilot Program. The pilot program
	add on later, but let's make some progress.	focuses the detail on the key drivers of
		the decisions that are to be made and
		reduces unnecessary detail that results
		in a longer process and one that may not deliver a better solution.
		not deliver a better solution.
CITIZEN-9	Hendry-Glades Audubon favors projects	Concur, the Corps looks forward to
CITIZEN	that can be developed and managed	Audubon's participation throughout
	effectively to improve water quality and	CEPP planning process.
	supply while meeting the diverse needs of	CELL Planting process.
	wildlife, ecosystems, private land owners	
	and the public interest.	
	and the public interest.	1
	and the public interest.	
CITIZEN-10	Here are some options that should be	The CEPP planning process is in the
CITIZEN-10		The CEPP planning process is in the initial stages of plan formulation. At
CITIZEN-10	Here are some options that should be	
CITIZEN-10	Here are some options that should be considered within the CEPP PIR to partially	initial stages of plan formulation. At
CITIZEN-10	Here are some options that should be considered within the CEPP PIR to partially substitute for or complement other proposed options:	initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed.
CITIZEN-10	Here are some options that should be considered within the CEPP PIR to partially substitute for or complement other proposed options: 1. In-ground Storage Reservoirs in lieu of	initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed. The Corps appreciates and welcomes
CITIZEN-10	Here are some options that should be considered within the CEPP PIR to partially substitute for or complement other proposed options: 1. In-ground Storage Reservoirs in lieu of above ground reservoirs	initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed. The Corps appreciates and welcomes your participation in CEPP planning
CITIZEN-10	Here are some options that should be considered within the CEPP PIR to partially substitute for or complement other proposed options: 1. In-ground Storage Reservoirs in lieu of above ground reservoirs 2. Deep In-ground cells within any	initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed. The Corps appreciates and welcomes
CITIZEN-10	Here are some options that should be considered within the CEPP PIR to partially substitute for or complement other proposed options: 1. In-ground Storage Reservoirs in lieu of above ground reservoirs 2. Deep In-ground cells within any reservoirs (above or below ground) for	initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed. The Corps appreciates and welcomes your participation in CEPP planning
CITIZEN-10	Here are some options that should be considered within the CEPP PIR to partially substitute for or complement other proposed options: 1. In-ground Storage Reservoirs in lieu of above ground reservoirs 2. Deep In-ground cells within any reservoirs (above or below ground) for chemical water treatment (perhaps with	initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed. The Corps appreciates and welcomes your participation in CEPP planning
CITIZEN-10	Here are some options that should be considered within the CEPP PIR to partially substitute for or complement other proposed options: 1. In-ground Storage Reservoirs in lieu of above ground reservoirs 2. Deep In-ground cells within any reservoirs (above or below ground) for chemical water treatment (perhaps with alum) and sequestration of removed	initial stages of plan formulation. At this point in the process, specific management measures or project features have not been developed. The Corps appreciates and welcomes your participation in CEPP planning
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LETTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	imported from Lake Okeechobee during	
	periods of regulatory discharge) (having	
	good connections to use Lake Okeechobee	
	water would be important).	
	5. Facilities to move and discharge water	
	along the northern and western boundaries	
	of Water Conservation Area 3.	
	The first 4 options are less land intensive	
	than the options of above-ground	
	reservoirs and STAs. They may well be cost-	
	competitive. They are also less likely to	
	engender conflicts between their planned	
	uses and environmental values. The fifth	
	option is necessary to distribute water to	
	rehydrate WCA 3 and establish proper	
	flows to achieve restoration.	

C.3.1.4 NEPA Scoping Comments/Letters



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COMMENTS/ QUESTIONS

EVENT: Central Everglades Planning Project Workshop

DATE: December 14-15, 2011

REPRESENTING (Check one) ____ELECTED OFFICIAL

- TRIBAL
- CONGRESSIONAL
- FEDERAL AGENCY
- STATE LEGISLATURE
- STATE AGENCY LOCAL GOVERNMENT

DO YOU WISH TO HAVE YOUR NAME INCLUDED ON THE MAILING LIST FOR FUTURE INFORMATION? ___ YES ___ NO

PRIVACY ACT STATEMENT AUTHORITY: 42 USC 4321, 4331-4335

PRINCIPAL PURPOSES: Information on this card is used for organization and conduct of this meeting. It may be added to the mailing list for notification of future meetings on the topic and for addressing correspondence subsequent to the meeting.

ROUTINE USES: This information is a public record and may be disclosed to other Federal or local agencies for governmental purposes as well as to private individuals and organizations under the freedom of information Act.

MANDATORY OR VOLUNTARY DISCLOSURE: Completion of this card is voluntary. However, failure to supply the information requested may result in your for your agency's) omission from turther notification regarding participation in the process.

___ ENVIRONMENTAL __ AGRICULTURE

___ SELF

___ MEDIA

OTHER

Everglades Planning

1 C.3-71 I was unable to participate in the Public Scoping Meetings. Howevr, I'm concerned that the Environmental Justice issues may not be adequately included in the plans for each project. With this in mind:

What efforts are planned for the evaluation and management of the Environmental Justice issues for each project? How are the low income and minority communities impacted by each C.3-72 project being considered and compensated?
C. R. Lee

Ralph, Gina P SAJ

From: martha musgrove

Sent: Friday, January 20, 2012 9:49 PM
To: CEPPComments, SAJ
Cc: Manley Fuller

Subject: comments re CEPP scoping

Jan. 20, 2012

Att: Dr. Gina Padua Ralph

Re: Scope of the Central Everglades Project

The Florida Wildlife Federation supports the announced Corps of Engineers' expedited process to develop a suite of projects to increase the volume and flow of freshwater, which meets established water quality standards of 10 ppb phosphorus, into Everglades National Park. The Federation fully supports restoration of the Everglades, including the Everglades National Park and the Water Conservation Areas.

As a member of the Everglades Coalition, we embrace the Coalition's recitation of necessary projects and request that special attention be paid to dealing with seepage management issues. In addition, we believe that the COE should include in the scope of the CEPP a goal of delivering its recommendations in time to be incorporated into the federal-budget cycle commencing in January 2014.

In addition the Federation urges the COE to include in its design studies and make recommendations about maintaining freshwater-fishing habitat in Water Conservation Area 3B, the L-67 canals and L-29 (Tamiami Trail) canal and public access. We ask that this planning include consideration of creating depressions similar to alligator holes, slopes to establish "littoral zones" around borrow pits/canals, and the use of fill to stabilize, regenerate or create tree islands mimicking the Everglades' natural ridge and slough landscape. As the COE is aware, over the years water has tended "to pond" in WCA 3B. This has resulted in establishing a thriving bass fishery that South Florida sportsmen have come to prize. The proximity to urban South Florida, which otherwise offers limited freshwater recreational fishing opportunities, enhances its recreational value. At this point we believe that fishery enhances the area for wading birds and wildlife and can be incorporated into proposed projects without harm to restoration goals.

Manley Fuller, president

Florida Wildlife Federation

PO Box 6870

Tallahassee, FL 32314

850-656-7113

wildfed@gmail.com

sent by: Ms. Martha Musgrove <u>Director, Florida</u> Wildlife Federation

Ralph, Gina P SAJ

From: Shinn, Charles [Charles.Shinn@ffbf.org]
Sent: Wednesday, January 18, 2012 11:14 AM

To: CEPPComments, SAJ

Cc: Subject:

Central Everglades Planning Project Public Comments on behalf of Florida Farm Bureau

Federation

Attn: Dr. Gina Paduano Ralph
U.S. Army Corps of Engineers

Florida Farm Bureau Federation (FFBF) is the Sunshine State's largest general interest agricultural organization with more than 140,000 member-families representing farmers throughout Florida on various issues that may impact farming operations. We have numerous farmers in Central and South Florida that potentially may be impacted by the Central Everglades Planning Project (CEPP), therefore please accept the following comments on behalf of our farmer members.

We depend on the Central & South Florida Flood Control Project and the associated partners for water supply as well as flood protection as noted in the Water Resources Development Act of 2000 (WRDA 2000). The intended purpose of the Comprehensive Everglades Protection Plan (CERP) within WRDA 2000 is the restoration and protection of the remaining Everglades while continuing to meet the water consumption needs of permitted users. The stated scope of the CEPP is very vague in how the goal will be accomplished. The vagueness along with the expedited CORP schedule provides concern that the proper assurances will be in place to minimize impact to landowners in the region south of lake Okeechobee.

Key to movement of additional water south is additional water storage. Thus far, the CORPS operation of the current Lake Okeechobee Regulation Schedule has not allowed the flexibility to increase water storage for proper timing of additional flows to the south. Without a noted change in operation, the CEPP must denote additional storage to create the proper timing needed to redirect water south.

Water quality has been an impediment to moving water into Everglades National Park and the current water conditions in Lake Okeechobee must be considered within the scoping process. It has been said that even if no additional loading is introduced to the lake, it will take a period of 50+ years for the lake to meet Federal standards. Ignoring the current condition of the lake will result in ultimate failure of any plan. Additionally, Federal Judge court orders must be considered and addressed.

Past single species management of Endangered Species such as the Cape Sable Seaside Sparrow must be addressed within the scoping process of the CEPP. Creating the mechanism to move water south only to have it blocked from entering the Everglades National Park will result in ultimate failure and the potential to flood lands in the EAA.

Florida Farmers are at their core environmentalists and the success of any farming operation depends on a healthy adjoining ecosystem. We fully support the concept of moving additional water south instead of releasing it to tide from via C-43 and C-44 thus harming fragile estuaries. The realities of the current conditions (quality/quantity/timing/distribution) must be fully addressed and vetted in any comprehensive plan such as CEPP. We look forward to working with the CORPS and other interested parties to develop a plan that will accomplish these goals.

Sincerely,

Charles Shinn

Assistant Director of Government & Community Affairs

Florida Farm Bureau Federation

P.O. Box 147030

Gainesville, Florida 32614

(772) 778-0932 office

(352) 538-0853 cell

charles.shinn@ffbf.org <mailto:charles.shinn@ffbf.org>

"The Voice of Florida Agriculture"



Florida Crystals Corporation

One North Clematis Street Suite 200 West Palm Beach, FL 33401

William F. Tarr Vice President P: 561-366-5157 F: 561-651-1280

January 20, 2012

VIA E-MAIL AND U.S. MAIL

Dr. Gina Padua Ralph U.S. Army Corps of Engineers Planning Division P.O. Box 4970 Jacksonville, Florida 32232-0019

> Re: Scoping Comments on the Central Everglades Planning Project

Dear Dr. Ralph:

Please accept this letter and its attachment as our initial comments on the proposed Central Everglades Planning Project (CEPP) as presented in the scoping announcement in the Federal Register and the presentations given at public scoping meetings.

Florida Crystals and its affiliates, including Okeelanta Corporation and New Hope Sugar Company, have consistently supported restoration of the South Florida ecosystem, along with protection of economic and social interests in the region. We own a large amount of farmland, employ many people in the Everglades Agricultural Area (EAA), and are significant contributors to the economy of South Florida. A significant number of our products are certified organic, we produce the first sugar certified as "CarbonFree" by Carbonfund.org, and we operate the United States' largest biomass power plant. We have been active participants in farm-level Best Management Practices that have reduced phosphorus in stormwater runoff from the EAA by over 50 percent.

We applaud the premise of the CEPP, as we understand it, to bring important restoration projects on-line sooner, and sincerely hope that the process evolves into a project we can actively support. At this time, however, we are not sure what the CEPP is expected to accomplish and how it will affect the interests of Agriculture. In that respect, we feel that the scoping initiative

Dr. Gina Padua Ralph January 20, 2012 Page 2

may be premature because the agencies have not yet proposed a plan with enough detail on which Florida Crystals can fully comment. Nevertheless, enclosed for your review is a series of detailed comments based on what we have seen so far.

Please do not interpret these comments to mean that we do not support the CEPP. We are hopeful that it can be a significant step forward, and we intend to stay engaged in the process to promote both Everglades restoration and to protect Agriculture.

Thank you for considering these comments. With kind regards, I am.

Yours truly,

Vice President

Florida Crystals Corporation

/icd Enclosure

Copy w/ encl. via e-mail to:

Mr. Joe Collins, SFWMD, Chair

Mr. Kevin Powers, SFWMD, Vice Chair

Ms. Sandy Batchelor, SFWMD Board Member

Mr. Daniel DeLisi, SFWMD Board Member

Mr. James J. Moran, SFWMD Board Member

Mr. Daniel O'Keefe, SFWMD Board Member

Mr. Juan M. Portuondo, SFWMD Board Member

Mr. Timothy Sargent, SFWMD Board Member

Mr. Glenn J. Waldman, SFWMD Board Member

Ms. Melissa Meeker, SFWMD

Mr. Matt Morrison, SFWMD

Mr. Tom Teets, SFWMD

Ms. Kimberly Taplin, USACE

Mr. Steven Kopecky, USACE

Mr. Dennis Duke, Interior

Mr. Tom MacVicar

Mr. Neal McAliley

Mr. Galen Miller

Florida Crystals Corporation's Detailed Comments on the CEPP (based on public scoping materials available to date)

January 20, 2012

1. Scoping is Premature in the Absence of a Specific Proposal

As an initial matter, it is premature to request scoping comments in the absence of a specific proposal by the U.S. Army Corps of Engineers (Corps) for the CEPP.

Scoping is required when an agency initiates preparation of an Environmental Impact Statement (EIS) pursuant the National Environmental Policy Act (NEPA). 40 CFR § 1502.4(d). Any NEPA process inherently begins with a proposal. United States v. SFWMD, 28 F.3d 1563, 1573 (11th Cir. 1994) ("It would be premature and serve no useful purpose to now require preparation of an EIS when no specific federal action has been proposed. ... NEPA does not require evaluation of hypothetical proposals, impacts and alternatives concerning a nonexistent federal proposal."); 40 CFR § 1502.4(a), -(d) ("Agencies shall make sure the proposal which is the subject of an Environmental Impact Statement is properly defined."). The purpose of scoping is to seek input from the public about what the agency should study with regard to that proposal. 40 CFR § 1501.7 ("There shall be an early and open process for determining the scope of issues to be addressed and for identifying the significant issues related to the proposed action. This process shall be termed scoping.") (emphasis added); CEQ, Draft Guidance on Improving the Process for Preparing Efficient and Timely Environmental Reviews under NEPA, 76 Fed. Reg. 77492, 77496 (Dec. 13, 2011) ("In scoping, the lead agency determines the issues its EA or EIS will address and identifies the significant issues related to the proposed action that will be considered in the analysis.") (emphasis added).

To date, the Corps has not proposed any specific plan for the CEPP. Instead, the Corps has stated that it intends to use the CEPP process to *develop* a proposal. USACE, Notice of Intent to Prepare EIS on CEPP, 76 Fed. Reg. 75539 (Dec. 2, 2011) ("The goal of the CEPP would be to *develop* an integrated, comprehensive technical plan..."). This is reflected in the changing name for the CEPP: originally, it was referred to in public announcements as the "Central Everglades <u>Study</u>," then it was called the "Central Everglades Planning <u>Process</u>," and now it is referred to as the "Central Everglades Planning <u>Project</u>." Despite the current label of the CEPP as a "project," the Corps has not yet proposed any specific project.

Conducting scoping now is inconsistent with NEPA and the Programmatic Regulations for the Comprehensive Everglades Restoration Plan (CERP). The government-wide regulations governing NEPA contemplate scoping *after* a proposal has been announced. *See* 40 CFR § 1501.7. The Corps' NEPA regulations call for the scoping notice itself to describe both the specific proposal and reasonable alternatives. 33 CFR Part 230, App. C. The CERP Programmatic Regulations also require the Corps to involve public "in such a way to ensure meaningful consultation." 33 CFR § 385.10(d). Since the Corps has not identified any specific proposal for the CEPP, members of the public cannot provide meaningful input regarding the environmental issues raised by, and alternatives to, the nonexistent proposal. While the Corps

Florida Crystals Corporation: Detailed Comments on the CEPP 1/20/12

wants to pursue an accelerated schedule for the CEPP, the Corps has also stated that it will follow all laws and regulations pertaining to other CERP projects.

While these comments are meant to provide constructive, meaningful input into the CEPP, in light of the lack of a specific project at this point, we reserve the right to supplement these scoping comments in the future.

2. The Corps Should Clarify Which CERP Projects Are Part of the CEPP

The Corps needs to clarify which CERP projects are going to be considered part of the CEPP. The CERP approved by Congress in the Water Resources Development Act of 2000 (WRDA 2000) consisted of 68 specific projects, which together were designed to help benefit the South Florida ecosystem while providing for the other water-related needs of the region. 67 Fed. Reg. 50540 (Aug. 2, 2002). Congress directed the Corps to prepare a Project Implementation Report (PIR) for each individual project to be authorized. WRDA 2000, § 601(b)(2)(D)(i), -(d), -(h)(4)(A)(i). The purpose of a Project Implementation Report is to "bridge[] the gap between the conceptual level of detail contained in the [the 1999 Final Integrated Feasibility Study and Programmatic EIS (1999 Approved Plan)] and the detailed design necessary to prepare plans and specifications required to proceed to construction." 33 CFR § 385.26(a)(1). The starting point for any Project Implementation Report therefore must be to identify the projects from the 1999 Approved Plan which will be addressed in the report.

It is not clear at this point which projects from the 1999 Approved Plan are being included in the CEPP. The announced purpose of the CEPP is to design the individual projects for the Central Everglades. The December 2, 2011 notice in the Federal Register states that "[t]he CERP projects identified to accomplish [the agency's objectives] *include* the Everglades Agricultural Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park (ENP) Scepage Management, and Everglades Rain-Driven Operations." 76 Fed. Reg. 75539 (Dec. 2, 2011) (emphasis added). The December 2, 2011 notice states that these projects are only the

"initial increment of project features that provide for storage, treatment, and conveyance south of Lake Okeechobee, removal of canals and levees within Water Conservation Area 3 and seepage management features to maintain water within the natural system." 76 Fed. Reg. 75539 (Dec. 2, 2011) (emphasis added).

Based on the Corps' description of potential CEPP features at initial public meetings, it appears that the CEPP may include even more projects identified in the 1999 Approved Plan. Potentially, all (or parts) of the following individual projects might fit within the general description CEPP provided to date:

- "Everglades Agricultural Storage Reservoirs (G)," 1999 Approved Plan, section 9.1.5 (identified in the Dec. 2, 2011 Federal Register notice)
- "Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement (AA, QQ and SS)," 1999 Approved Plan, section 9.1.7.2 (identified in the Dec. 2, 2011 Federal Register notice),

Florida Crystals Corporation: Detailed Comments on the CEPP

1/20/12

- "L-31N Improvements for Seepage Management and S-356 Structures (V and FF)" (later renamed, at least in some places, "ENP Seepage Management"), 1999 Approved Plan, section 9.1.8.21 (identified in the Dec. 2, 2011 Federal Register notice),
- "Everglades Rain Driven Operations (H)," 1999 Approved Plan, section 9.2.4.1 (identified in the Dec. 2, 2011 Federal Register notice)
- "Flows to Northwest and Central Water Conservation Area 3A (II and RR)", 1999 Approved Plan, section 9.1.7.1,
- "Water Conservation Areas 3A and 3B Levee Seepage Management (Q)", 1999 Approved Plan, section 9.1.8.13,
- "Lake Okeechobee Regulation Schedule (F)", 1999 Approved Plan, section 9.2.1.1,
- "Modified Holey Land Wildlife Management Area Operation Plan (DD)", 1999 Approved Plan, section 9.2.4.2,
- "Modified Rotenberger Wildlife Management Area Operation Plan (EE)", 1999
 Approved Plan, section 9.2.4.3,

It is important that the Corps clearly define which projects from the 1999 Approved Plan are included in the CEPP. The public needs to know how much of the overall CERP is being packaged into the CEPP, if for no other reason than to enable them to provide meaningful comment. Moreover, the Project Implementation Report will have to demonstrate that the CEPP design is "consistent with the [1999 Approved] Plan," 33 CFR § 385.26(a)(3)(i), and "[i]nclude a discussion of any significant changes in cost or scope of the project from that presented in the 'Final Integrated Feasibility Report and Programmatic Environmental Impact Statement,' dated April 1, 1999," *id.* –(a)(3)(xiii). The sooner the agency identifies the specific CERP projects included in the CEPP, the better the public will be able to provide meaningful input.

3. The Corps Should Limit the CEPP to the Scope Approved by Congress in WRDA 2000

The 1999 Approved Plan presented to Congress specifically described the projects included in the plan, and the CEPP should only consider projects consistent with that plan. Agricultural interests in EAA supported approval of the CERP by Congress and the Florida Legislature based, in part, on the expectation that the agencies had identified a limited and reasonable amount of farm land to be sacrificed for water management purposes. The South Florida Water Management District currently owns the land in the EAA identified for CERP in the 1999 Approved Plan. This means that the Corps can implement the CEPP in the EAA consistent with the 1999 Approved Plan, using land the government already owns. For planning purposes, this would make the EAA portion of the CEPP manageable and more realistic and appears to be the Corps' plan, based on statements in early scoping meetings that it will "focus on lands purchased for CERP." Agency CEPP Powerpoint Presentation, p. 31 (Dec. 16, 2011).

It would be inappropriate for the Corps to design a project that would significantly depart from the 1999 Approved Plan in the Project Implementation Report for the CEPP. In the particular case of the "Everglades Agricultural Storage Reservoirs (G)" project, it would be improper for the agency in the CEPP to develop a proposal, and analyze alternatives to such a proposal, that would call for significantly larger land footprints in the EAA.

Florida Crystals Corporation: Detailed Comments on the CEPP

A. Congress Approved a Specific Plan in WRDA 2000, and the Corps Lacks Authority to Go Beyond That Plan

1/20/12

The Corps lacks authority to depart from the 1999 Approved Plan in development of the CEPP. In WRDA 2000, Congress approved the specific plan contained in the Final Integrated Feasibility Report and Programmatic Environmental Impact Statement, dated April 1, 1999. WRDA 2000, § 601(b)(1)(A) ("Except as modified by this section, the Plan is approved as a framework for modifications and operational changes to the Central and Southern Florida Project..."); id. § 601(a)(4) ("The term 'Plan' means the Comprehensive Everglades Restoration Plan contained in the 'Final Integrated Feasibility Report and Programmatic Environmental Impact Statement,' April 1, 1999, as modified by this section."). Congress affirmatively directed the Corps to implement that specific plan (with some modifications). WRDA 2000, § 601(b)(2)(A)(i) ("The Secretary shall carry out the projects included in the Plan in accordance with paragraphs (B), (C), (D), and (E)."). Congress also made a point of not approving a portion of the plan that was developed late in the process, and specifically indicated that water generated by that portion of the plan was not "water included in the Plan." WRDA 2000, § 601(g). While the Corps indicated in the 1999 Approved Plan that it would continue to refine and optimize the CERP based on new information and changed circumstances, see, e.g., 1999 Approved Plan at 10-19 ("The purpose of the Project Implementation Report is to affirm, reformulate or modify a component, or group of components, in the recommended Comprehensive Plan."), it never told Congress that it would seek to significantly change the overall plan through individual project authorizations. In accordance with WRDA 2000, the Corps therefore needs to limit the scope of the CEPP to the approximate parameters of the projects approved by Congress in WRDA 2000.

B. The Corps Cannot Prepare a Project Implementation Report If There Will Be Significant Changes to the CERP Projects

The CEPP cannot consider significant changes to the 1999 Approved Plan in the context of a Project Implementation Report. In its December 2, 2011 public notice, the agency indicated that it will prepare a Project Implementation Report for the CEPP. Project Implementation Reports take the preliminary parameters of the projects contained in the 1999 Approved Plan and fill in the details. Programmatic Regulations, Six Program-Wide Guidance Memoranda, at 1-B-1 (July 2007) ("CERP Guidance Memoranda") ("Each component or project of the Plan has previously been formulated to a certain level and the component or project has been developed to accomplish specific CERP goals. As such, formulation in the PIR always begins with the formulations already completed in developing the plan."). Congress specifically directed that such reports must be consistent with the Plan. WRDA 2000, § 601(h)(4)(A)(iii)(I) ("A project implementation report shall ... be consistent with the Plan.."); see also 33 CFR § 385.6.

Although a Project Implementation Report may consider "minor adjustments in the Plan," a significant change in the plan would require preparation of a Comprehensive Plan Modification Report. 33 CFR § 385.32(c); CERP Guidance Memoranda, at 1-4 ("Minor adjustments to the Plan may therefore be accomplished through PIRs."). To date, the Corps has not identified a need for a significant change to the CERP which could be the basis of a Comprehensive Plan Modification Report. The Programmatic Regulations require the Corps to have prepared Periodic CERP Updates in 2004 and again in 2009, which could have been the basis for "modifying the design or operational plan for a project of the Plan not yet

Florida Crystals Corporation: Detailed Comments on the CEPP 1/20/12

implemented" or preparing a Comprehensive Plan Modification Report. 33 CFR § 385.31(c), - (d)(1)(ii), -(d)(2). Since the Corps has never prepared such a Periodic CERP Update there would be no basis to make significant departures from the 1999 Approved Plan in the detailed design of projects in the CEPP.

For the CEPP, this means that the Project Implementation Report should be limited to proposals and alternatives that would optimize the projects identified in the 1999 Approved Plan, making only limited adjustments. To take one project, the "Everglades Agricultural Storage Reservoirs (G)" was to be used for storage of local runoff and Lake releases to be delivered to the Water Conservation Areas at a total price of approximately \$436,648 million (in 1999 dollars and cost of construction). The EAA features are at the heart of the CERP, and at the time the 1999 Plan was issued, the land needed for that project already had been acquired by government agencies. Developing the CEPP consistent with those parameters would be appropriate for a Project Implementation Report. The agency could also analyze different ways of using the available land that would balance deliveries to agricultural users and the WCAs, and that would meet the requirements of the Savings Clause of WRDA 2000 concerning the transfer of existing sources of water supply and levels of flood protection.

C. Significant Changes to CERP Projects in the CEPP Will Require Additional Programmatic NEPA Compliance

If the CEPP exceeds the scope of the 1999 Approved Plan, it will trigger the need for a new Programmatic EIS for the CERP. The 1999 Approved Plan was prepared with a Programmatic EIS, in part so that subsequent NEPA documents prepared for individual CERP components could tier-off of the original Programmatic EIS. 33 CFR § 385.26(d)(1). To the extent that the Corps makes significant changes to the 1999 Approved Plan in the CEPP, then it will need to prepare a new Supplemental Programmatic EIS for the overall CERP. If the agency wants to move expeditiously with the CEPP, then it should avoid making significant changes to the 1999 Approved Plan.

4. Proposed Planning Constraints and Performance Measures Should Be Revised

A. Lake Okeechobee Water Storage and Operations

The Corps must change its planning constraints related to operations of water control structures around Lake Okeechobee. In initial public meetings on the CEPP, the Corps has identified as a planning constraint "Lake Okeechobee Regulation Schedule – LORS 2008." *E.g.*, Agency CEPP Powerpoint Presentation, at 29 (Dec. 16, 2011). The agency apparently will assume that LORS 2008 will be in effect until at least 2050, because it is identified as part of the "Future Without Project Condition – 2050." *See, e.g., id.* at 33.

It would be inappropriate for the CEPP to make LORS 2008 a planning constraint for the CEPP. First, it would be inconsistent with the 1999 Approved Plan. The 1999 Approved Plan assumed that a former lake regulation schedule, Run 25 Lake Schedule, was the CERP 2050 Without-Project condition. This was the basis of the Corps' analysis of the overall benefits of the CERP compared to the status quo. If the Corps now treats LORS 2008 as the "Without-Project Condition," it would change every benefit analysis that was performed for the CERP and

Florida Crystals Corporation: Detailed Comments on the CEPP 1/20/12

clearly require a CERP Update or Comprehensive Plan Modification Report as envisioned in the Programmatic Regulations. At most, it might be appropriate to utilize the former WSE Schedule as the Without-Project Condition since it was developed concurrent with the 1999 Approved Plan, but in no case can the LORS 2008 schedule be used for that condition.

Second, using LORS 2008 as a planning constraint for the CEPP would be inconsistent with the regulation schedule itself. When the Corps adopted LORS 2008, the agency acknowledged that "Lake Okeechobee is a multi-purpose project with often competing project purposes....The recommended plan attempts to balance these project purposes, but public health and safety, related to concerns with HHD structural integrity were a dominant factor in the plan formulation." LORS 2008 ROD, at 2. The ROD further stated that it would only be an interim schedule for the Lake. LORS 2008 ROD, at 6 ("The final SEIS also explains that the recommended plan will be an interim schedule, and a new study will begin immediately following completion of this Lake Okeechobee Regulation Schedule Study which will take into consideration upcoming Comprehensive Everglades Restoration Plan (CERP) projects. ... The recommended plan identifies an interim solution..."). By making that "interim schedule" a planning constraint in the CEPP, the Corps effectively would convert it to a permanent regulation schedule. That would lock-in for purposes of the CEPP analysis a performance for the Lake that was never intended to be in place in the future when the CEPP projects will be in operation.

Third, making LORS 2008 a planning constraint would violate Savings Clause of WRDA 2000. The Savings Clause of WRDA 2000 provides, in part, that "[u]ntil a new source of water supply of comparable quantity and quality as that available on the date of enactment of this Act is available to replace the water to be lost as a result of implementation of the Plan, the Secretary and the non-federal sponsor shall not eliminate or transfer existing legal sources of water, including those for an agricultural or urban water supply." WRDA 2000, § 601(h)(5). "Existing legal source" means the "quantity and quality of water available within a basin ... used for a water supply, which is legally protected..., as of December 11, 2000, for ... [a]n agricultural or urban water supply." CERP Guidance Memoranda, at 3-3. The Programmatic Regulations provide that the Corps "shall determine if implementation of the project will cause an elimination or transfer of existing legal sources of water by comparing the availability of water with the recommended project with the pre-CERP baseline developed in accordance with § 385.35(a) [through guidance]." 33 CFR § 385.36. This determination should be done through "a preliminary screening analysis" at the start of the process. CERP Guidance Memoranda, at 3-1. The Pre-CERP Baseline developed under the Programmatic Regulations "is a description of assumed hydrologic conditions on the date of enactment of WRDA 2000 (December 11, 2000)," which for Lake Okeechobee was the "Lake Okeechobee Regulation Schedule WSE according to WSE decision trees." Programmatic Regulations, Pre-CERP Baseline Memorandum, at 8, 14 (April 2005). "Although regional models and model versions may change over time, the assumptions that define the Pre-CERP Baseline will not be changed." CERP Guidance Memoranda, at 3-6. Since the LORS 2008 regulation schedule was adopted in 2008, it is not part of the Pre-CERP Baseline. The apparent decision in the CEPP to make the "interim" LORS 2008 regulation schedule permanent, by treating it as the Without-Project Condition, will effect a permanent loss of water supply for agriculture (and other users). WRDA 2000 prohibits such a transfer of water supply until alternative water is made available, and the CEPP therefore cannot treat the LORS 2008 as an unchangeable constraint.

The only valid approach for the CEPP would be to allow for changes in the Lake Okeechobee Regulation Schedule as necessary to achieve project objectives. That would be consistent with the agency's initial outline of measures to be considered in the CEPP, which include "operational changes." It would also allow the agency to avoid transferring existing legal sources of water away from agricultural users in the EAA, by adjusting the lake schedule as appropriate to avoid adverse impacts to agricultural users. To summarize, the Without-Project Condition must assume either the WSE or Run 25 regulation schedules are in effect, while the With-Project Condition can utilize the WSE schedule, or a proposed new schedule recommended by the CEPP.

B. Water Quality

The role of water quality standards in the CEPP needs to be reconsidered. In initial public meetings on the CEPP, the Corps has identified as a planning constraint "Meet Applicable Water Quality Standards." *E.g.*, Agency CEPP Powerpoint Presentation, p. 29 (Dcc. 16, 2011). This formulation of the planning constraint is quite vague, in that it does not identify which standards need to be met at what locations. To the extent that the Corps means that water from Lake Okeechobee delivered to the WCA's should meet applicable phosphorus effluent limitations for discharges from Stormwater Treatment Areas, those effluent limitations have not yet been fully determined. To the contrary, the precise effluent limitations for Stormwater Treatment Area discharges, and how those effluent limitations would be measured, is the subject of ongoing litigation which may not be fully decided for years. The CEPP therefore is being tied to a planning constraint which is undefined. Furthermore, the potential projects that may be required to meet the limitations resulting from the litigation may be incompatible with the plan recommended by the CEPP, and the South Florida Water Management District may not have the financial resources to satisfy both courts and participate in the CEPP.

The CEPP plans also need to be developed based on the actual quality of water in Lake Okeechobee. We have heard that some in the federal government are considering an assumption that the Lake water phosphorus concentration is at 44 parts per billion. According to recent data from the South Florida Water Management District, average phosphorus concentration within the Lake ranges from 100 to 200 ppb. The quality of water in Lake Okeechobee is not the responsibility of the EAA, because virtually all of the water entering the Lake comes from other basins. The CEPP should include in its analysis a defensible Lake Okeechobee phosphorus concentration based on reasonably foresceable phosphorus levels over the course of the study period, not an assumption based on a goal where there is no expectation of that goal being met.

C. Water Supply

Assuring adequate water supply for existing and future uses should be a planning constraint for the CEPP. This has always been a planning constraint for CERP-related processes. It was a planning constraint to minimize loss of service for water supply in the C&SF Project Reconnaissance Report (Nov. 1994) (p. 200-201). The Governor's Commission for Sustainable South Florida, which Congress directed the Corps to consider in development of the CERP, made a planning objective of "ensur[ing] adequate water supply and flood protection for ... agricultural needs." 1999 Approved Plan, at 6-4. In WRDA 2000, Congress included the Savings Clause which prohibits the elimination or transfer of an existing legal source of water

Florida Crystals Corporation: Detailed Comments on the CEPP 1/20/12

for agricultural or urban water supply until replacement water is available that is of comparable quantity and quality. WRDA 2000, § 601(h)(4)(A). For plan development purposes, the CEPP therefore should include a constraint that it will assure adequate water supplies for existing and future uses.

There also should be a performance measure that evaluates the extent to which the CEPP alternatives increase water supplies for users other than the natural system. When the 1999 Approved Plan was developed, many agricultural and urban water users supported the plan because the analyses showed that it would develop additional water for new human uses. See, e.g., CERP Guidance Memoranda, at 3-2 ("It is anticipated that if more water is made available for the natural system in South Florida through implementation of the Plan, more water should also be available for other existing and future uses."). When the Florida Legislature approved the CERP in 2000, it expressly stated that one of the Plan's purposes was "the enhancement of water supplies." § 373.470(3)(b)(2), Fla. Stat. The project "Everglades Agricultural Storage Reservoirs (G)," for instance, in part was designed to provide water for agricultural uses in the EAA. See 1999 Approved Plan, at 6-14 to 6-15, 9-9 to 9-10. The Corps' presentation at the initial CEPP scoping meetings mentioned the Savings Clause for existing uses, but did not mention that water for new uses was to be provided by other elements of the CERP that could be affected by this project. The CEPP should consider this issue, and include the development of additional water supplies as a performance measure.

D. Flood Protection

The CEPP also should embrace the same purposes as the Everglades Agricultural Storage Reservoirs in CERP which included "increasing flood protection in the Everglades Agricultural Area." (1999 Approved Plan, at 9-9) In the WRDA 2000 Savings Clause, Congress directed that "[i]mplementation of the Plan shall not reduce levels of service for flood protection that are in existence on the date of enactment of this Act, and in accordance with applicable law." WRDA 2000, § 601(h)(4)(B). A planning constraint for flood protection therefore would be appropriate for the CEPP. Moreover, like water supply, one of the authorized features of the 1999 Approved Plan was improved levels of service for flood protection. (1999 Approved Plan, at 9-9) The CEPP should include as a performance measure the degree to which proposals improve flood protection.

E. Economic and Social Disruption

There should be an additional planning constraint that the agencies minimize regional economic and social disruption. This, too, has long been a planning goal of the Corps' South Florida ecosystem restoration planning. It was a planning constraint for the C&SF Project Reconnaissance Report (Nov. 1994) (p. 201). The Reconnaissance Report acknowledged that "reduced agricultural production" was a "negative impact," and "a proxy of acres of land removed from production, and similarly from county tax rolls, was used to measure the potential economic and social disruption" (p. 201). The 1999 Approved Plan identified as one of the "Planning Goals and Objectives" "Enhance Economic Values and Social Well Being." 1999 Approved Plan, at 5-24. Consistent with the Reconnaissance Report, the CEPP should include minimization of economic and social disruption as a planning constraint, using the proxy of reduced agricultural production and property removed from tax rolls.

Florida Crystals Corporation: Detailed Comments on the CEPP 1/20/12

5. Alternatives

As indicated above, it is very difficult for the public to identify alternatives for analysis in the absence of a specific proposal from the Corps. However, there are at least three types of alternatives that the agency should consider as it develops the CEPP.

First, the Corps should consider opportunities for additional water storage in Lake Okeechobee. The Lake was used to store significantly more water before implementation of LORS 2008. The only significant water storage that will be available in the CEPP timeframe will be provided by the Lake. To the extent that storage there is limited by condition of the Herbert Hoover Dike, the Corps could consider supplementing the dike rehabilitation funds as part of the funding appropriated for the CEPP, since many of the benefits to be derived from the CEPP will be dependent on storage capacity in Lake Okeechobee above what can be provided under the LORS 2008 schedule. This would be consistent with some of the "fundamental general concepts" of the Governor's Commission for Sustainable South Florida, which set a planning objective that "[t]he burden and responsibility of water storage should be shared across the system." 1999 Approved Plan, at 6-5.

Second, the CEPP should consider restoration/rehydration of the Holey Land and Rotenberger Wildlife Management Areas. These lands are publicly-owned by the State of Florida and are perfectly positioned to store and release water needed for the restoration of WCA-3A and Everglades National Park. The Rotenberger Wildlife Management Area is 28,760 acres, and Holey Land Wildlife Management Area is 35,350 acres. At a minimum, the CEPP should consider restoring sheetflow to those areas, since they are located immediately north of WCA 3A. There are two projects in the 1999 Approved Plan which seek to accomplish just that. These areas potentially could more than double the total acreage available to the government for water deliveries from Lake Okeechobee to the Everglades and the CEPP should consider how best to address those areas as it considers alternative measures for the Central Everglades.

Third, to the extent that the CEPP concludes that Lake Okeechobee water will need to be treated before delivery to the WCAs, the CEPP should consider a wide variety of alternative ways to treat that water. Potential options could include stormwater treatment areas, chemical treatment, and potential methodologies to deal with phosphorus within the Lake. For each alternative treatment option, analyses should evaluate the effectiveness of each treatment option in reaching target phosphorus levels, the true long-term cost of each option, and the resulting effects on the Northern Estuaries associated with greater and lesser flows from the lake associated with the effectiveness of different options.

We look forward to providing additional comments as the CEPP moves forward and the agencies develop a specific proposal for public review.



Everglades Coalition

1000 Friends of Florida Arthur R. Marshall Foundation Andubon of Florida Audubon Society of the Everglades Audubon of Southwest Florida Caloosahatchee River Citizens Association/Riverwatch Clean Water Action Clean Water Network Collier County Audubon Society Conservancy of Southwest Florida Defenders of Wildlife Ding Darling Wildlife Society Earthjustice Environment Florida The Environmental Coalition Everglades Coordinating Council Everglades Foundation Everglades Law Center Florida Conservation Alliance Florida Defenders of the Environment Florida Keys Environmental Fund Florida Native Plant Society Florida Oceanographic Society Florida Wildlife Federation Friends of the Arthur R. Marshall Loxahatchee Wildlife Refuge Friends of the Everglades Hendry Glades Audubon Society Izaak Walton League Florida Division Izaak Walton League Florida Keys Chapter Izaak Walton League Mangrove Chapter Izaak Walton League of America Last Stand League of Women Voters of Florida

Sambel-Captiva
Conservation Foundation
Save Ir Now, Gladeat
Sterna Club
Sterna Club Broward Group
Sterna Club Calusa Group
Sterna Club Calusa Group
Sterna Club Cantan Horida Group
Sterna Club Central Horida Group
Sterna Club Horida Chapter
Sterna Club Horida Chapter
Sterna Club Maani Group
The Snook and Gamefish Foundation
South Florida Audubon Society
Tropical Audubon Society
The Urban Environment League
World Wildlife Fund

Loxalutchee River Coalition
Martin County Conservation Alliance
National Audubon Society
National Parks Conservation Association
National Wildlife Federation
National Wildlife Refuge Association
National Wildlife Refuge Association
Natural Resources Defense Council
The Ocean Conservancy
The Pegasus Foundation

January 20, 2012

Attn: Gina Paduano Ralph, Ph.D Department of the Army Planning and Policy Division Jacksonville District Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Dr. Ralph:

Please see the attached Resolution Supporting Central Everglades Planning Project for inclusion in scoping. We look forward to working with you on this endeavor. Please contact us with any questions or comments.

Sincerely,

Julie Hu-Gabriel

Julie Hill-Gabriel State Co-Chair 305-371-6399 x136 Jhill-gabriel@audubon.org Dawn Shirreffs National Co-Chair 954-961-1280 x 205 dshirreffs@npca.org



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Sierra Club Sierra Club Broward Group Sierra Club Calusa Group Sierra Club Central Florida Group Sierra Club Florida Chapter Sierra Club Loxabatchee Group Sierra Club Miami Group The Snook and Gamefish Foundation Sonth Florida Audubon Society Tropical Audubon Society

The Urban Environment League Wodd Wildlife Fund

RESOLUTION SUPPORTING CENTRAL EVERGLADES PLANNING PROJECT

WHEREAS, the Everglades Coalition is committed to protecting lands critical to the future of Florida's environment, drinking water, economy, recreation, and quality of life; and

WHEREAS, the Everglades ecosystem has continued to decline in the face of restoration delays and an expedited solution is needed to increase the quality, quantity, timing and distribution of freshwater flows into the central Everglades, Everglades National Park and Florida and Biscayne Bay; and

WHEREAS, increased deliveries of water south of Lake Okeechobee will reduce damaging discharges to the Caloosahatchee and St. Lucie estuaries; and

WHEREAS, the goal of the Central Everglades Planning Project (CEPP) is to significantly reduce planning times and deliver a finalized plan, for a suite of restoration projects in the central Everglades within 18 months,

WHEREAS, the ecological goals and objectives of the Comprehensive Everglades Restoration Plan (CERP) include increasing the total spatial extent of natural area, improving habitat and functional quality, and improving native plant & animal species abundance & diversity:

THEREFORE BE IT RESOLVED that the Everglades Coalition supports the completion of a project implementation report (PIR) through the CEPP using CERP adaptive management protocols by May 2013 that addresses key obstacles for restoring freshwater flows and implements meaningful ecological and economic benefits toward restoring America's Everglades.

Approved January 5, 2012.

Wil-Gabriel

Julie Hill-Gabriel State Co-Chair 305-371-6399 x136

Jhill-gabriel@audubon.org

Dawn Shirreffs National Co-Chair 954-961-1280 x 205 dshirreffs@npca.org

www.evergladescoalition.org Ph: 954-961-1280 • Fax: 954-985-5<mark>03⁷⁸⁸</mark> 450 N. Park Rd. #301, Hollywood FL 33021

Streamlining Central Everglades Project Planning (CEPP) using CERP Adaptive Management Protocols

Executive Summary: Streamline CEPP using CERP Adaptive Management Integrated Guide protocols by:

- Incorporating a CEPP Conceptual Ecological Model (CEM) to arrive at restoration valuation measures
- Focusing on CERP 1999 Table 5-1 Goals & Objectives as the basis for top level valuation measures
- Valuing ecosystem services based on measured increases in total special extent per CERP Objective 1
 Assumption: CEPP Time-lines & public support mandate streamlining by synthesis all can understand.

PROGRESS: Adding CEPP to CERP using CERP Adaptive Management Protocols resulting in CERP(+).

- Central Everglades Project Planning (CEPP) Positives:
 - The Project Delivery Team (PDT) Goes in the direction of CERP(+)
 - o Federal Register/CEPP Workshops wording has this restoring flow, etc.:
 - · Details at www.sfrestore.org;
 - See Federal Register handout (Attachment 1, A-1, next page)
 - Noted in Nov 30 CEPP Workshop: CEPP Federal agencies are considering ecosystem services valuation (ESV) for decision-support, per the July, 2011 White House Report – Sustaining Natural Capital: Protecting Society & The Economy
- Streamline the process using the CEPP evaluation tool box with 3 E-Z evaluation tool box additions per the CERP 2011 Adaptive Management Integration Guide protocols (See protocols in Attachment 2):
 - 1. CEPP Conceptual Ecological Model (CEM) (See Attachment 3 case for a CEPP CEM)
 - a. A CEPP CEM is required by Activity 4 and lead-in to other required PDT activities;
 - b. Note: Measures posted in Nov 30 CEPP Workshop were borrowed from other CEM's, but other regions do not include historical *attributes* of a pond apple forest, sawgrass plains, and 40 mi+ wide expanse of sheet flow; the *drivers* and *stressors* are also different.
 - 2. CERP 1999 Table 5-1 Goals & Objectives (see attachment 4 and "posting on the wall");
 - a. Establish measures based on CERP Table 5-1 Total system goals and objectives per CEM process, e.g., what is the increase in total spatial extent of natural area in acres?
 - 3. Add Ecosystem Services Valuation Approach & Methodology to the evaluation tool box
 - a. Calculate ESV of alternatives based on dollars per acre per year using Costanza Synthesis dollar values per acre, number of acres of increased spatial extent, and CERP life-cycle, e.g. economic and ecologic value for an alternative configuration looks something like:
 - b. ESV = Costanza Synthesis Biome type value per acre per year x 100,000 acres x 40 years ESV \sim \$10,000 x 100,000 acres x 40 years
 - c. Compare benefits calculated by ESV to costs for a B:C ratio that provides return on investment (ROI) decision-support for decision makers.
 - d. NOTES, especially for those critical of the benefits transfer approach based on the Costanza Synthesis, the most widely referenced peer-reviewed paper on ESV:
 - Alternative approaches to a more ESV localized analysis are data and modeling intensive, and likely not achievable in a streamlined CEPP set time-frame
 - ii. Literature that documents localized ESV modeling approaches appear to borrow data from other regions with even more benefits transfer than occurs using the Costanza Synthesis
 - iii. CONCLUSION: The a.b.c. approach above has the distinct result of *quicker*, *cheaper*, *better* analysis of alternative and falls into the category of *close enough for government work*
 - iv. Also goes in the direction of the White House Report recommending the feds apply ESV in projects like CERP as a means to get to return on investment for astute decision-support.
- POSSIBLE SUPPORT by up-start orgs in the news in November, 2011, and presently: Public Comment Request to Everglades Legislative Caucus; Member request to Florida Conservation Coalition (FCC): Push Streamlined CEPP
- Everglades Coalition Conference, ESV Breakout Session, Jan 7 (Push Streamlined CEPP using ESV)
- Apply ESV to Proposed Everglades Headwaters National Wildlife Refuge (Push Costanza Synthesis)
- Summer Intern Program Recruiting begins at EvCo Conference; project assignment = ESV Theme applied to CEPP



Dated: November 29, 2011

Morgan F. Park,

Alternate OSD Federal Register Liaison Officer.

[FR Doc. 2011-30986 Filed 12-1-11; 8:45 am]

DEPARTMENT OF DEFENSE

Department of the Army, Corps of Engineers

Intent To Prepare an Environmental Impact Statement for the Central Everglades Planning Project, Okeechobee, Glades, Martin, Palm Beach, Broward, Miami-Dade and Monroe Counties, FL

AGENCY: Department of the Army, U.S. Army Corps of Engineers, DOD. ACTION: Notice of intent.

SUMMARY: The Everglades ecosystem encompasses a system of diverse wetland landscapes that are hydrologically and ecologically connected across more than 200 miles from north to south and across 18,000 square miles of southern Florida. In 2000, the U.S. Congress authorized the Federal government, in partnership with the State of Florida, to embark upon a multi-decade, multi-billion dollar Comprehensive Everglades Restoration Plan (CERP) to further protect and restore the remaining Everglades ecosystem while providing for other water-related needs of the region. CERP involves modification of the existing network of drainage canals and levees that make up the Central and Southern Florida Flood Control Project.

Since 2000, much progress has been made. Construction has begun on the first generation of CERP project modifications already authorized by Congress. These include the Picayune Strand Restoration, the Indian River Lagoon South and Site 1 Impoundment projects. Project Implementation Reports have been completed, or are nearing completion, for the second generation of CERP projects for Congressional authorization, including Biscayne Bay Coastal Wetlands-Phase 1, the Broward County Water Preserve Areas, the Caloosahatchee River (C-43) West Basin Storage Reservoir, and the C–111 Spreader Čanal Western Project. All of these CERP projects utilize lands that were acquired by the State and Federal government to meet CERP goals of increasing the extent of wetlands, reducing damaging freshwater discharges to the coastal estuaries, and reducing seepage losses from the natural system. These projects contribute significant ecological benefits to the

system and the specific regional habitats in which they are located. These initial CERP projects were intended to provide initial and immediate ecological benefits and set the conditions along the margins of the system that help ensure increased water flows to the interior of the system will not cause adverse effects.

The next step for implementation of CERP is to redirect water that is currently discharged to the east and west coast estuaries from Lake Okeechobee and restore water flow to the south, allowing for restoration of natural habitat conditions and water flow in the central Everglades and reconnecting the ecosystem from Lake Okeechobee to Everglades National Park and Florida Bay. The Central Everglades Planning Project will develop the initial increment of project features that provide for storage, treatment and conveyance south of Lake Okeechobee, removal of canals and levees within Water Conservation Area 3 and seepage management features to retain water within the natural system. The CERP projects identified to accomplish this include the Everglades Agricultural Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park (ENP) Seepage Management, and Everglades Rain-Driven Operations. These projects make up the heart of CERP aimed at restoring more natural quantity, quality, timing and distribution of water flows to the remaining portions of the river of grass. An integrated study effort on these projects is needed to set the direction for the next decade of CERP implementation.

ADDRESSES: U.S. Army Corps of Engineers, Planning Division, Environmeutal Branch, P.O. Box 4970, Jacksonville, FL 32232-0019.

FOR FURTHER INFORMATION CONTACT: Dr. Gina Ralph at (904) 232-2336 or email at Gina.P.Ralph@usace.army.mil.

SUPPLEMENTARY INFORMATION:

a. The goal of the Central Everglades Planning Project effort would be to develop an integrated, comprehensive technical plan, including the first increment of projects, for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem.

b. A scoping letter will be used to invite comments from Federal, State, and local agencies, affected Indian Tribes, and other interested private organizations and individuals.

c. A scoping meeting will be held December 14, 2011 from 6:30 to 9 p.m. at the Sheraton Suites Plantation, Plantation I/II Room, 311 North University Drive, Plantation, Florida and December 15, 2011 from 6:30 to 9 p.m. at the John Boy Auditorium, 1200 South W.C. Owen Avenue, Clewiston, FL. Assistance for individuals with special needs or language translation will be available as needed by calling (904) 232–1613.

d. All alternative plans will be reviewed under provisions of appropriate laws and regulations, including the Endangered Species Act, Fish and Wildlife Coordination Act, Clean Water Act, and Farmland Protection Policy Act.

e. The Draft Environmental Impact Assessment is expected to be available for public review in the 1st quarter of 2013

Brenda S. Bowen.

Army Federal Register Liaison Officer. [FR Doc. 2011–31010 Filed 12-1-11; 8:45 am] BILLING CODE 3720-58-P

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

Combined Notice of Filings #1

Take notice that the Commission received the following electric corporate filings:

Docket Numbers: EC12-38-000. Applicants: TPW Petersburg, LLC, Gestamp Eolica S.L.

Description: Application of TPW
Petersburg, LLC and Gestamp Eolica
S.L. for Authorization Pursuant to
Section 203 of the Federal Power Act
and Request for Confidential Treatment,
Expedited Consideration and Waivers.
Filed Date: 11/21/11.

Filed Date: 11/21/11. Accession Number: 20111121–5279. Comments Due: 5 p.m. ET 12/12/11.

Take notice that the Commission received the following electric rate filings:

Docket Numbers: ER11-4674-001. Applicants: Midwest Independent Transmission System Operator, Inc. Description: Vectren-IMPA FCA Amendment to be effective 9/29/2011.

Filed Date: 11/21/11.
Accession Number: 20111121–5193.
Comments Due: 5 p.m. ET 12/12/11.
Docket Numbers: ER12–351–001.
Applicants: Midwest Independent

Transmission System Operator, Inc. Description: 11-21-11 MRES Attachment O, GG, and MM Amendment to be effective 1/1/2012. Filed Date: 11/21/11.

Accession Number: 20111121-5234.

Justy Month Schiles (1)

The Comprehensive Everglades Resocution Plan

March 2011



CERP Adaptive Management Integration Guide

	- WING CENTRAL		
Adaptive Management Activity	CEPP	CEPP	Decision Maker(s) & How Decisions are Made
Activity 4 - Apply Conceptual Ecological Models, and Develop Hypotheses and Performance Measures	MAP CEMs and hypothesis clusters RECOVER System-wide performance measures and targets including interim goal and targets	RECOVER and PDT: Use CEMs and hypotheses, identify evaluation methods (model tools and performance measures), refine targets FCOSYSTEM SERVICES VALUATION? (ESV)	Program – RECOVER approves CEMs, system-wide hypotheses and performance measures. Project – Hypotheses, models and performance measures approved by DCT.
Activity 5 — Integrate Adaptive Management Principles into Alternative Plan Development and Implementation	Yellow Book and project goals and objectives Uncertainties Hypotheses Performance measures: PER CERP TABLE 5-1 L S V BENEFITS BENEFITS ROL	PDT: project designs to test hypotheses; perfarmance measures to evaluate benefits; develop adaptive management plans that include potential management options matrix and costs; develop project operating manuals. USACE and SFWMD led interagency program teams: develop Comprehensive Plan Modification Report, System Operating Manual, and sequencing plan.	Program – USACE and SFWMD approve Comprehensive Plan Modification Report, Sequencing Plan, System operating manual Praject – selected plan and adaptive management plan approved by DCT, JPRB, and USACE & SFWMD
Activity 6 — Monitoring	Management options matrix Performance measures and targets (BENEF 175?) Interim goals/targets CERP TAIBLE 5-1 GOALS/ OTSIECTIVES	RECOVER: Update and refine Monitoring and Assessment Plan, identify thresholds and timing (decision criteria) for reporting. PDT: Develop project-level monitoring plan, and identify costs, thresholds, and timing (decision	Program – RECOVER approve MAP changes Project – Project- level monitoring plan and costs approval at DCT, JPRB, USACE & SFWMD

Additional Inputs not limited to these:
To PBCC & WRAC Mar 30, 06; To USACE, 3 Apr
To River of Grass Workshop & SCG, 2009
To GEER Cont '06, '08, '10 as Top 10 need
To SCG, 15, Sept 2010; To UF IFAS, Sept, 2010;
Back to WRAC, Oct 7, 2010; Gov Board, Oct 14, 2010

Environmental Action Committee => Central Everglades Project Planning (CEPP) Stakeholders

June 12, 2002 => Jul, 2010 (GEER) => SCG/WG, Sept 15, 2010=> Oct 7, 2010 => WRAC => Dec 16, CEPP Proj Dev Team Repeat of an earlier EAC Recommendation, recycled, still a CERP(+)Science Need/gap, now a CEPP Need/Gap!

RECOMMENDED: That a Central Everglades Project Planning (CEPP) Conceptual Ecological Model (CEM) be established as part of the Comprehensive Everglades Restoration Plan (CERP) collection of CEM's:

WHEREAS, The CEMs have been declared the basis for CERP science, identifying stressors, drivers, attributes, cause and effect relationships, gaps in knowledge, and a means to establish CERP needs & requirements;

WHEREAS, CEMs exist for all other major regions of the Greater Everglades Ecosystem to be restored;

WHEREAS, The Central Everglades is part of the South Florida Ecosystem to be restored, and includes Lake Okeechobee, the Loxahatchee River Watershed, the Lake Worth Lagoon Watershed as well as the St Lucie and Indian River Lagoon Watershed, and the historic "River of Grass" that includes the sawgrass plains;

WHEREAS, The Central Everglades Watershed estuaries and the historic "river of grass" need to be given integrated consideration in CERP RECOVER Monitoring and Assessment Plan (MAP) proceedings;

WHEREAS, Without a Central Everglades Watershed CEM – drivers, stressors, and attributes (past, present, and future) will be overlooked; cause and effect relationships with respect to various components will be overlooked as if components, such as the pond apple swamp and sawgrass plains did not exist, and that the absence thereof is having serious negative impacts on CERP Implementation, including the River of Grass workshops per the attached impact analysis; and whereas a CEM serves as a historical reality check.

WHEREAS, Some of the attributes here included a massive pond apple forest south of the lake, which acted as a filter forest as noted in the 2010 Biennial Report; and this is a part of an integrated ecosystem in need of being addressed in the River of Grass (ROG) Workshops.

WHEREAS, The hydrologic continuum must be considered in the Central Everglades Watershed, along with the interdependence among biologic forms on the hydrologic continuum, same as the rest of the South Florida Ecosystem, in terms of habitat and function objectives of CERP Table 5-1 objectives; and;

WHEREAS, Consideration of a Conceptual Ecological Model (CEM) is Activity 4 is a PDT requirement of project development, per the CERP Adaptive Management Integration Guide, pages 13, 14, 16 and D-10.

WHEREAS, It is axiomatic that not addressing what's missing holds no possibility of restoration at all!

SO NOW BE IT HEREBY RECOMMENDED by Stakeholders, that a Central Everglades Planning Project CEM be formulated to provide an integrated approach to restoration of the Central Everglades Watershed Region as well as the integration of this region into the rest of the South Florida Everglades Ecosystem.

Respectfully resubmitted on behalf of Stakeholder Groups including the Arthur R. Marshall Foundation/FEI Science & Technology Committee, and the River of Grass Estuary/Everglades Restoration (ROGER) Group,

hn Arthur Marshall

Attachment: Impact Assessment

A-3

Additional Inputs not limited to these:
To PBCC & WRAC Mar 30, 06; To USACE, 3 Apr
To River of Grass Workshop & SCG, 2009
To GEER Conf '06, '08, '10 as Top 10 need
To SCG, 15, Sept 2010; To UF IFAS, Sept, 2010;
Back to WRAC, Oct 7, 2010; Gov Board, Oct 14, 2010

MISSING IN ACTION: Central Everglades Planning Project (CEPP) Conceptual Ecological Model (CEM)

IMPACT ASSESSMENT of NO CEPP CEM in the PDT Planning Process

ASSUMPTION: Strategy for the future of the Central Everglades is being generated absent a CEPP CEM.

- Absence of CEPP CEM means environmental impacts of development will be handled out of context of total ecosystem
 consideration, and the PB County Commission is likely to continue to ignore CERP/CEPP needs & requirements.
- How can the future of the Central Everglades Watershed and a CERP configuration to restore same be fully considered without a CEPP CEM that considers what's missing (attributes) and the need to overcome stressors?

Restoration of Florida's Ancient Forests that previously existed as an attribute is not a visible consideration in CERP/CEPP

- Habitat & functional value of 1000's of acres of custard apple south of Lake OK, should be a part of CEPP
- Central Everglades Watershed had more forested wetland acreage than any other region in CERP
- Restoration of forested wetlands meets all CERP Table 5-1 Goals & Objectives, as proposed in ROG Workshop.

Estuary Attributes cannot be fully considered without a CEPP CEM

 Lake Worth Lagoon, Indian River Lagoon, Loxahatchee River being considered as separate watersheds v. interdependent subsystems of the Central Everglades region, i.e., Central Everglades Watershed.

Increasing spatial extent of natural area per CERP Table 5-1, and the ecosystem service value, is not being fully considered.

- · Total increase of natural area resulting from CEPP ought to be the primary performance measure, and primary benefit.
- Without a CEM footprint, decreased spatial extent is a possibility due to development pressures
- RECOVER Job 1, Per Monitoring & Assessment Plan, is to measure to what extent CERP Goals & Objectives are met!
- CERP Table 5-1 Goals and Objectives need more consideration

Solution to *Dynamic Storage and Sheet Flow* per CERP Section 2.3.1 has not been fully considered, because lack of sheet flow was not been fully identified as a Central Everglades Watershed stressor, including potential flood control in extreme events, owing to lack of a CEPP CEM

- NAS CROGEE discussion indicated that restoration of flow need can be summarized as a "no-brainer"
- Dynamic Storage & Sheet Flow remains the fundamental characteristic of the Everglades, thus it remains the major requirement to achieve Everglades Restoration and flood control, per ROG Workshop objectives.
- · Fundamental Flaw in CERP implementation: RECOVER MAP is not fully CERP requirements driven
- Object of CEPP CEM is to identify ecologic and economic needs & requirements for CERP(+)
- CERP Table 5-1 Goals and Objectives need more consideration as the central organizing theme.

SB626 Phosphorous Standard Regression and statements that on 10% of Everglades is impacted does not take the Central Everglades into consideration, i.e., total system view integrated approach remains absent, in absence of CEPP CEM.

- CERP Premise is that Ecosystem should be managed as a whole, i.e., as a watershed.
- Loxahatchee River is > 50% impacted; Watershed maps of the region are inconsistent
- CERP Implementation continues to be managed on the component level, with a bottom up approach.
- TOP-DOWN approach needed, using CERP Table 5-1 goals & objectives as central organizing theme; top-level
 measures resulting from the CEM ought to start here, but both the CEM and Table 5-1 are missing from the tool box.
- · Economic benefits of a restored missing link River of Grass also need consideration as a performance measure

CEPP Stressors and missing attributes must be compensated for, but in absence of CEPP CEM are not fully considered:

- · Soil Subsidence; Soil accretion and sustainable agriculture; Development pressures; heavy contaminant sources
- Need for Dynamic Storage & Sheet Flow (CERP 2.3.1) to fully restore the system (The Marshall Plan, again)

CONCLUSION: In CEPP PDT "Ecological Evaluation Tools Under Consideration" - tool box should include:

- CERP TABLE 5-1 Goals & Objectives
- CEPP Conceptual Ecological Model

IMPACT OF NOT INCLUDING THE ABOVE: "C" in CERP is less than 80% comprehensive

CERP TABLE 5-1

[What should be the Central Organizing Theme, Annotated]

GOALS & OBJECTIVES FOR THE C&SF RESTUDY

[The \$20¹ billion dollar+ CERP Promise (1999)]! Is Everglades Restoration headed in this direction? ²

GOAL 1: Enhance Ecological Values³; OBJECTIVES⁴:

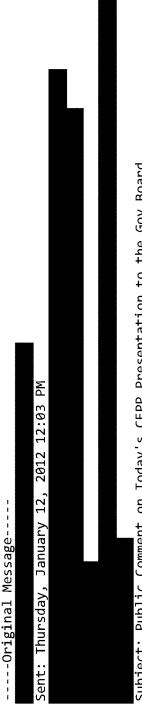
- Increase total spatial extent of natural areas [1.1] ⇔ FLOW
- Improve habitat and functional quality [1.2] ⇔ FLOW
- Improve native plant & animal species abundance & diversity [1.3]⁵

GOAL 2: Enhance Economic Values & Social Well-Being; OBJECTIVES:

- Increase availability of fresh water (agriculture, municipal and industrial) [2.1] ⁶
 ⇔ [(FLOW + WQ) V. (ASR WQ)]
- Reduce flood damages (agricultural and urban) $[2.2]^7 \Leftrightarrow \text{ditto}^8$
- Provide recreational, navigation opportunities [2.3]
- Protect cultural, archeological resources & values [2.4]

A-4

Does not include O&M costs, including heavy use of fossil fuel. CERP implementation needs to be energy efficient. From Conceptual Everglades Restoration Plan, CERP SECTION 5.5, page 5-21, "Yellow Book", also "Overview", April, 1999, Page 15 = THE PROMISE!, per the NEPA/WRDA process; a major deficiency of implementation is that these goals lack full attention. These Goals & Objectives should be the central organizing theme; the absence of same begets more process; process subsumes focus; the result is that confusion and more process is the central organizing theme. Define Ecosystem Services Value in economic terms, to show total system benefits, relative to cost, for B:C analysis! ⁴ Essentially a reiteration of 1993 Science Subgroup Report/1994 USACE Reconnaissance Study plan objectives. (Plan 6) WHERE ARE THE TREES IN CERP? Everglades Consolidated Report Peer Review 2003: Forested wetland pilot program needed to calculate P reduction! Consideration for carbon sequestration is not in the current focus. Objective 2.1 for the environment, implied, is to be covered in programmatic regulations; well, not exactly; Aquifer Storage & Recovery (ASR) does not do much for water quality (WQ), and is being viewed as hi-cost, hi-risk technology. Ditto, "shared adversity" applies, Tradeoff = buy land with ASR \$\$\$ for "shared prosperity" The Governor's missing link initiative goes in this direction, but, there is no visible B/C analysis of alternatives per CERP Section 7.5.3 yet either! Bottom Line: BUY LAND & GO WITH THE FLOW per the Marshall Plan (1981) to restore the missing link and revitalize the river of grass...! For optimum water quantity & quality solutions. The Central Everglades Planning Project (CEPP) appears to be the answer we have been waiting for if executed & measured according to Table 5-1 Objectives.



Subject: Public Comment on Today's CEPP Presentation to the Gov Board

Dear Gov Board members, et al;

As a response to the discussion on Central Everglades Planning Project (CEPP) which I viewed on Webcast, on behalf of the Arthur R. Marshall Foundation, the following comments.

There has been a long standing CERP deficiency of lack of connectivity between Lake O and For the ArtMarshall.org this is one of the most important CERP thrusts since CERP 1999. WCA-3. We call the addition of CEPP, CERP(+). In previous workshops, the CEPP has been briefed appropriately as an adaptive management "readjustment" project based on new information (a wetter Everglades, than was considered in CERP 1999).

The re-connection of Lake O and WCA-3 with a flow-way of some sort is the key to the Art Marshall vision of restoring sheet-flow from the Kissimmee Basin to FL Bay to the extent feasible. We call my late Uncle's vision FULL DECOMP. This also traces back to Plan 6 in the 1994 USACE Recon study, and the 1993 Science Subgroup report.

A CEPP approach also provides much fuller relief of the estuaries, and a possible spill way for heavy storm events, i.e., flood control, a major objective of CERP Table 5-1, discussed in the attached power point.

Using the adaptive management approach as described in the SFWMD 2011 Adaptive Management Integration Guide, we see an opportunity to streamline the CEPP process. We have mentioned this approach in all PDT meetings and workshops thus far. More attention and compliance with the AM protocols are needed in the scoping process and beyond, as amplified in the attached.

As mentioned by one of the commentors, we also see CEPP as an extension of the River of Grass workshops, regarding the need to come up with a configuration to flow clean water south.

We also made a power point presentation on streamline CERP at the recent Everglades Coalition Conference. The presentation is attached for additional consideration.

As mentioned by other EVCo members, we look forward to further participation in the CEPP process, with the same message in the attached.

We very much appreciate the "enhanced public inclusion" in the CEPP process.

Thanks for your consideration, and a read of this comment, which is about three minutes worth, less the attachment.

For the Art Marshall approach, Semper Fi!

John Arthur Marshall, Chairman of the Board, Chair, Science & Technology Committee, Arthur R. Marshall Foundation & Florida Environmental Institute, Inc. A Hands-on grassroots.org (www.artmarshall.org/) Declaring 2012 the Year of "It's my Everglades, too"

NOTE THE DATES - Busy Start of 2012: Happy New Year Jan 5-8, Everglades Coalition Conference; Jan 7 Breakout Session Jan 13, Science Coordination Group meeting, SFWMD Jan 17-18, Water Supply Summit, Tallahassee Jan 18, Marshall Foundation Canoe River of Grass Expedition begins at the Arthur R. Marshall Lox National Wildlife Refuge Jan 20, Final Comments on Central Everglades Project Scoping process due Jan 25-26, Central Everglades Project Planning Meeting & Workshop, SFWMD Feb 4, Spruce-up At the Arthur R. Marshall Refuge in Prep for Everglade Day Feb 11, Everglades Day at the Arthur R. Marshall Refuge

EVERGLADES RESTORATION: Our Passion! Our Mission! Our Legacy!

1028 N Federal Hwy, Lake Worth, Fl 33460 Phone: 561-233-9004; Fax: 561-233-9989

Classification: UNCLASSIFIED

Caveats: NONE

Protecting Society & the Environment Sustaining Natural Capital:

January 17, 2012

John Arthur Marshall, Arthur R. Marshall Foundation

Presentation to the Everglades Legislative Caucus

Demonstration of an approach & methodology

Streamlining Central Everglades Project Planning based on **Ecosystem Services Value of a Restored River of Grass**

C.3-98

What's this all about?

- economic value of natural capital resources for decision-support requiring trade-offs Problem: Insufficient consideration of
- of natural capital for project decision-makers Solution: Calculate the total economic value
- Use to Streamline Central Everglades Planning Project (CEPP) as a demonstration
- Legislate State requirements along lines of federal recommendations and peer-reviewed approach

66-

evaluation tools per PDT* AM protocols Streamlining CEPP using three essential

- **CEPP Conceptual Ecological Model (CEM)**
- CERP Table 5-1 Yellow Book Goals & Objectives
- Ecosystem Services Valuation (ESV) using the Costanza, et al, Synthesis.

*REFERENCE: CERP 2011 Adaptive Management *Integrated Guide* protocols (p. 13, 14, 16, <u>D-10</u>) for the Project Delivery Team (PDT); see:

http://www.evergladesplan.org/pm/pm_docs/adaptive_mgmt/062811_am_guide_final.pdf



D-10* AM Activity 4, 5 in Project Development

- Activity 4 requirement: Develop a CEPP CEM
 - Establish CEPP valuation measures based on **CEM Drivers, Stressors, and Attributes, and**
- Activity 5 requirement:
- stated objective: *Increase total spatial extent of* emphasizing ecological goals, especially first Pursue CERP Table 5-1 goals & objectives , natural area (acres)
- Compare Ecosystem Service Benefits and Costs

C.3-101

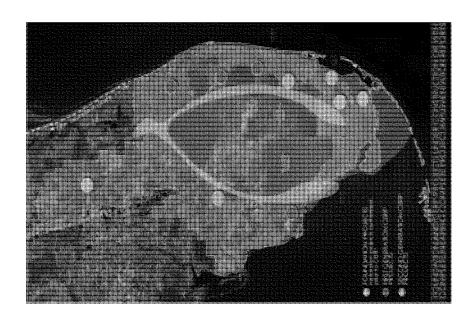
CERP Table 5-1 Goals & Objectives

Goal: Enhance Ecologic Values; Objectives:

- Increase the total spatial extent of natural areas
- Improve habitat (biomes) and functional quality
- Improve native plant & animal species abundance & diversity **Goal: Enhance Economic Values And Social Well Being**
- Increase availability of fresh water (ag/municipal & industrial
- Reduce flood damages (agricultural/urban)
- Provide recreational and navigation opportunities
- Protect cultural and archeological resources and values

CEPP process **Boundaries**

Presently
Defined as a
Wish Bone to
connect the
head bone with
the foot bone
via the back
bone



C.3-103

Adaptive Management Activity 5 Requirements: **Consider Benefits and Costs**

Apply Costanza Synthesis values to get Benefits

- Calculate Ecosystem Service Value (benefits) in terms of \$\$\$ per acre per year based on:
- Costanza value of \$/acre/yr (benefits transfer)
- Total spatial extent of natural area added (acres)
- 40 year CERP life-cycle (conservative)
- Notional example (\$40 billion in benefits based on avg value) $ESV = $10,000/Acre/yr \times 100,000 acres \times 40 yrs = $40 Billion$
- investment decision-support; 6:1 is conservative Compare Benefits to Cost (B:C) for return on

..3-104

ESV Demonstration by 2010 Summer Interns

- The Colorful Slides are theirs
- Also presented previously
- Poster paper at the 2010 GEER Conference
- Presentation at the 2011 & 2012 EvCo Conference Presentation to FGCU Sustainability class
- Process with <u>\$ynthesis</u> that all can understand review" as the means to streamline the CEPP Here it comes again with credible "peer

Everglades Coalition Conference, January 7, 2011; Weston, FL

- The Honorable Rock Salt, Deputy Assistant Secretary of the Army (Civil Works):
- Interns came up with the best illustration of how From what I have seen in my travels, your 2010 Ecosystem Services Valuation [ESV] should be applied of any I have seen.
- Secretary Salt has attended and spoken at A Conference on Ecosystem Services (ACES) in 2008 and 2010, and is on the White House Committee inducting an ESV approach as a matter of national policy.

.3-106

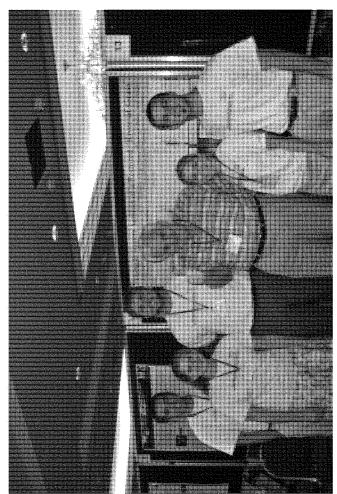
Valuing Ecosystem Services of a Restored "River of Grass"

GEER 2010: Ecosystem Services Valuation as a Method to Guide Future Planning, Policy, and Science

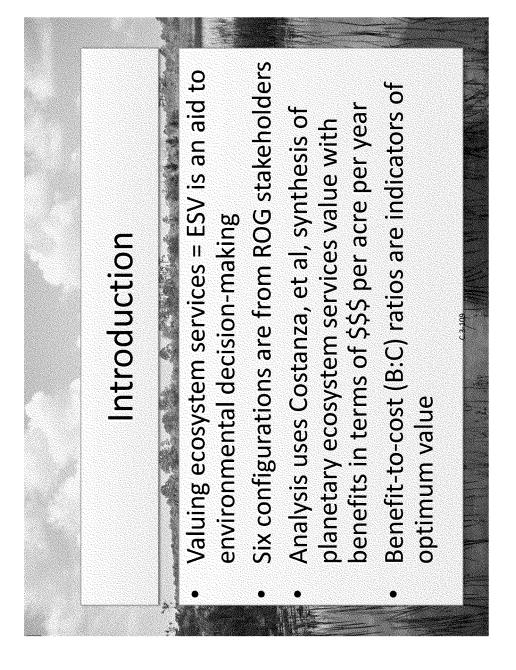
WRAC Meeting: July 8, 2010

Angelique Giraud, Ed Pritchard, Dylan Scott, Adrienne Smith, Jim Wally Arthur R. Marshall Foundation Summer Interns:

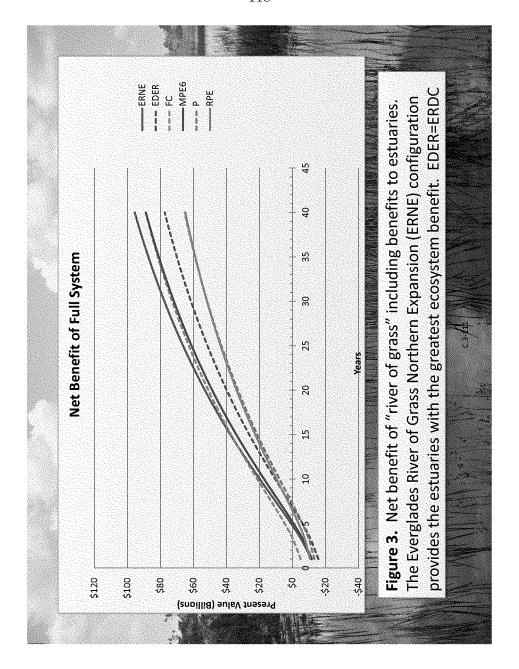
The Honorable Rock Salt gives the 2010 Summer Intern Team a thumb's up on their ESV "How-to-do-it" Demonstration Project!

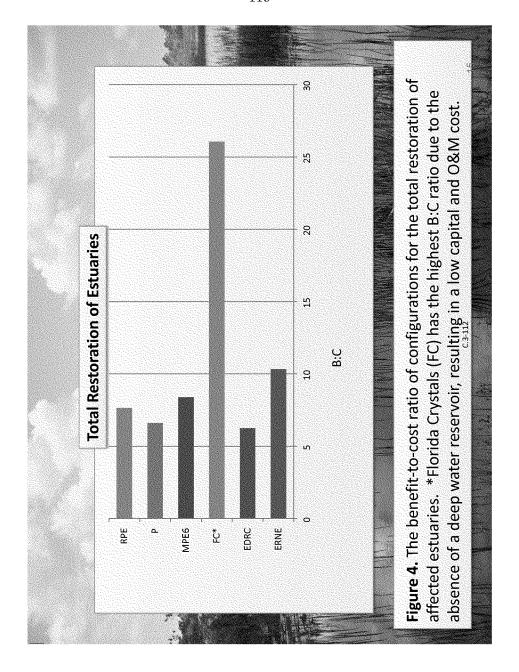


7.3-1



Annual Value ac (S ac ¹ yr ¹)	\$8,643	\$6,590	\$10,499	\$11,470	value of features in \$ ac ¹ yr ¹ .		
Features	STA	Deep Water Reservoir	Flow-Way	Forested Wetland	Table 3. The annual economic value of features in \$ ac ⁻¹ yr ⁻¹ .		





Benefits Transfer Pro's and Con's

- First the bad news: BT is controversial because not Alternative analysis is data and modeling intensive every biome (ecosystem) type is the same, locally. incurring significant time and costs; may result in more BT than using the Costanza Synthesis
- Now the good news: BT using the Costanza Synthesis **cheaper** method needed for a streamlined approach, can be done in weeks v. years; meets quicker, better, close enough for Govt Work, perfect being the enemy of good enough.

...

Final Points

- better decision-support, understandable by Office of indicate viability of Ecosystem Services Valuation for Numerous NGO studies and robust B:C ratios > 6:1 Management & Budget, Congress and the Public
- When ecosystem services are not given a dollar value, the default value is zero (NRC 2005);
- Does this place policy of no net loss of wetlands at risk?
- and make the Everglades restoration Total Economic CEPP implementers should adopt the ESV approach Value calculation an example to follow.
- Take-Home Assignment: Pester CERP principals to do so!

114

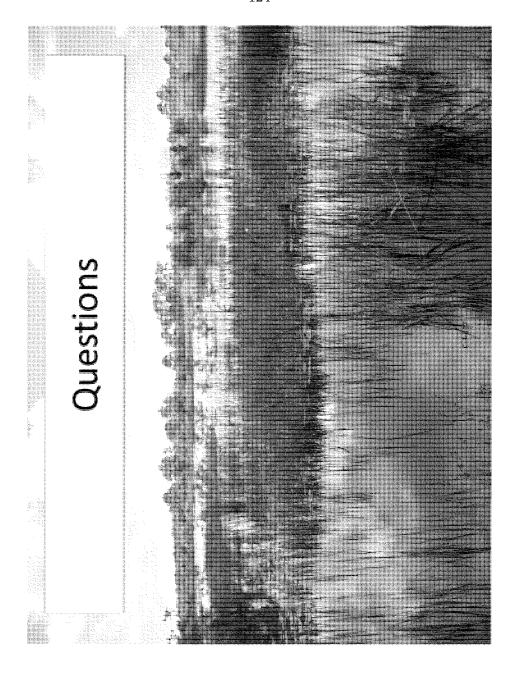
On Benefit:Cost Ratios

- A notional average is a conservative B:C=6:1
- When the Ecosystem is given back to nature to the max, Florida Crystals Corp has calculated that the B:C approaches 26:1
- on maximum preservation at minimum cost, In calculating the ESV of the EH NWR, based B:C ratios may approach 100:1.
- Literature confirms; See Wakefield on Costanza: http://www.uvm.edu/research/?Page=news&storyID=1153&category=uvmresearch

PRIMARY REFERENCES

- http://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast_sustaining_ White House Report, July, 2011: Sustaining Natura Capitol – Protecting Society and the Economy environmental capital report.pdf
- Costanza, et al, Report on value of the planet's 18 http://www.uvm.edu/giee/publications/Nature_Paper.pdf biomes; Google **Nature 387**, or
- Environmental Decision-making, NRC 2005; See Valuing Ecosystem Services – *Towards Better* http://www.nap.edu/catalog.php?record_id=11139
- For Additional information and more references:
- Go to www.ArtMarshall.org; Contact JAMinfo@AOL.com
- See: http://www.palmbeachpost.com/opinion/letters/return-onsaving-everglades-90-billion-883668.html?cxtype=ynews rss

116



Gators are an Indicator Species! Go Gators



C.3-118

Ralph, Gina P SAJ

Friday, January 20, 2012 12:03 PM	
	Friday, January 20, 2012 12:03 PM

 Subject:
 Public Comments on Central Everglades Planning Project (CEPP) Scoping

 Attachments:
 StreamliningCEPP-ELC-17 Jan.ppt

Dear CEPP Project Delivery Team, et al;

On behalf of the Arthur R. Marshall Foundation and Florida Environmental Institute, we are most pleased to participate in CEPP enhanced public involvement by submitting the following comments on the CEPP scoping process.

The following five points are essentially the same points we made at the PDT webinar, Dec 22, 2011. These comments appear to remain applicable, given the Science Coordination Group (SCG) meeting Jan 13, 2012, regarding CEPP Agenda item comments. The attached power point program encapsulates comments we made at the SCG meeting, and relates to the five comments that follow.

- 1. Scoping should include more focus on CERP Table 5-1 Goals & Objections (pointing out what was now on the Conference Room Table). It seems like such focus would go a long way in meeting Susan Markley's concerns, also Laura Brant's concern about ecological considerations. Table 5-1 is still not in any of the written material / presentations other than what has been put on the conference table.
- The top level performance measure being considered by the CEPP scoping process per Table
 1 objective 1 ought to be total increase in acres, of increase in total spatial extent of natural area. This would allow engagement of the Costanza Synthesis.
- 3. Before the presentations, I was going to ask how or what habitat units are assigned to various biomes [Stormwater Treatment areas; Ridge & Slough landscapes, flow-way for sheetflow; forested wetlands; reservoirs, etc.]. After the HU presentation, I think I am starting to get it. [More on this in next comments below].
- 4. There is a lot of fuzziness about the CEPP boundaries (physical and fiscal). A regional CEM might sort out some of the fuzziness by establishing CEPP geographic boundary limits [consistent where CEPP construction costs will be incurred], while considering cause-effect

upstream/down stream relationships [i.e., considering connectivity where all things are connected].

5. Weighting methods are most times argumentative. The HU weighting scheme may prove difficult to explain to the public [and decision makers]. While the HU approach may justify alternative selection [as stated earlier], it does not monetize the ecological benefits such that the benefits can be compared to costs [as the means to get to return on investment] for decision makers. On Fred Sklar's comment: That the Everglades is more complex, is an indication that a better approach to Synthesis is needed, understandable by OMB, Congress, and the public, and especially the National Research Council CERP Peer Review Panel.

Regarding using an ESV approach, SFWMD economist Ian Miller has been looking at the ESV Approach, per a brief to our Summer Interns. Given that the HU approach includes acreage we will have our 2012 Summer Interns make another pass as demonstrating the ESV approach, same as the analysis we did for the ROG workshops.

P.S. We plan on presenting our CEPP Streamlining approach at the Everglades Coalition Conference, and have submitted an abstract to present the same approach at the GEER/INTERCOL Conference in June.

As noted above, we presented our Streamlining CEPP approach as a power point program in the Everglades Coalition Conference Breakout session titled: Sustaining Natural Capital Protecting Society and the Economy. At the invitation of the Florida Everglades Legislative Caucus (ELC), we also presented essentially the same program, to the first ELC meeting in Tallahassee, Jan 17, 2012. The Streamlining CEPP power point is attached as amplification of the Arthur R. Marshall Foundation position on Streamlining CERP/CEPP using adaptive management protocols as defined in the 2011 Adaptive Management Integration Guide.

Thanks for your consideration. We look forward to continued discussion at future CEPP PDT meetings and workshops.

Finally, as a matter of considerable public interest in CEPP and enhanced public involvement policy, we requested that the National Research Council CERP Peer Review Panel webcast their Jan 26, 2012 open meeting regarding CEPP presentations and considerations. Apparently this is beyond current NRC logistics, but would be much appreciated in the future, for meetings at remote locations, as is done by the SFMMD.

Respectfully Submitted,

John Arthur Marshall, Chairman of the Board, Chair, Science & Technology Committee, Arthur R. Marshall Foundation & Florida Environmental Institute, Inc.

2 C.3-120 A Hands-on grassroots.org (www.ArtMarshall.org http://www.artmarshall.org/) Declaring 2012 the Year of "It's my Everglades, too"

NOTE THE DATES OF BREAKING EVENTS;

Jan 5-8, Everglades Coalition Conference; Jan 7 Breakout Session Jan 13, Science Coordination Group meeting, SFWMD Jan 17, Everglades Legislative Caucus meeting, Capital, State of Florida Jan 17-18, Everglades Foundation Water Supply Summit, Tallahassee (Very Well done!)

Jan 18, Marshall Foundation Canoe River of Grass Expedition begins at the Arthur R. Marshall Lox National Wildlife Refuge; tune in at 8 AM Jan 20, 23 and 10AM Jan 24 for finale, at http://breeze.palmbeach.k12.fl.us/riverofgrass2012/

Jan 20, Final Comments on Central Everglades Project Scoping process due Jan 25, Central Everglades Project Planning Meeting & Workshop, SFMMD webcast Jan 26, National Research Council Peer Review Panel to review CEPP process, Wash, DC Jan 31, Central Everglades Project Planing Meeting & Workshop, Local Govt, SFWMD Feb 4, Spruce-up At the Arthur R. Marshall Refuge in Prep for Everglade Day Feb 11, Everglades Day at the Arthur R. Marshall Refuge

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Ralph, Gina P SAJ

From: mike xxxxxxxxx

Sent: Thursday, December 15, 2011 7:32 PM

To: CEPPComments, SAJ

Subject: Suggestions

Hello,

I attended the meeting last nite in Plantation and found it very positive and informative. Id like to add a few comments and suggestions.

Im a native Miamian and my dad as well. He was born in Miami in 1940. He can remember when the Miami River had rapids and 27th Ave was the last paved road to the west. He also remembers fishing in the glades and knows very well he had fished in spots that no one had ever stepped foot at before. He was a boy scout and as a kid would camp behing Long Pine Key campground in Everglades National Park. He grew up poor and became an AC repairman. He loved the outdoors and is one of the best self made south florida naturalists I know. He was also a vice president of the Tropical Audubon Society in the late 70s. WE LOVE THE ENVIRONMENT and nature in general. We dont hunt but we do fish and are active birders. My parent owned cheap property in the Big Cypress years ago (for pennies) and had to sell it to the oil companies about 20 yrs ago.

I went to FIU and received an Environmental Studies degree. I became a naturalist for Dade County Parks and currently work for the City of Ft Lauderdale. My family thinks that protecting the one and only glades for generations to come, after having lost a majority of it already, is the most important thing Florida can do. The Army Corps has already crippled the glades and they owe it to us to repair what they can. Over population has cleared almost all the pinelands and tainted our waters with mercury (why we stopped fishing in the glades 25 yrs ago). The water situation has caused havoc with the wood storks in Corkscrew and caused mercury levels in panthers and gators to be over the top.

THERE IS ONE EVERGLADES. THATS IT! We believe a few very important points are vital to the glades health. #1, The Urban Development Boundary Dade Co. must remain where it is.#2, The dike around the Lake will NOT break free as proposed by people. A waste of money to repair. It isnt the ocean, and even a severe 'cane wont provide waves like it would in an ocean! New Orleans simply caused this panic! The rim canal would barely be affected. Its a ridiculous notion! I bring this up because of the wasteful funds it could use up.#3, we dont want TOO much water where there shouldnt be much and vice versa! land animals need dry land! #4, the "glades people" although very important, may have to adapt IF this affects them negatively! A few people, although very important, sometimes hve to sacrifice livelihood for the greater good of something greater...THE GLADES AND EARTH'S FUTURE! #5, Im hoping, having worked there, that Arch Creek, one of only a few natural rivers left, and of extreme historical significance, can once again flow! Its stagnant still, last I heard, and this should be of utmost importance- to let it flow again...its a polluted mess! It would bring a lot of happiness and add a little touch of personality to the CERP program!

Thanks! I wrote this in a hurry but I hope our points have been made and will be taken into consideration. We generally support what the Sierra Club, Audubon, and Friends of the Everglades support.

We need to speak for the things that can speak for themselves and this is one of those cases! ONE EVERGLADES...ITS OUR WATCH. DO IT RIGHT!

I once met Marjorie Stoneman Douglas...I hope if shes looking down that shes proud of me for sticking up for her (and our native indian's) baby!

Sincerely,
Michael Pafford

Ralph, Gina P SAJ

mike xxxxxxxx Monday, December 19, 2011 7:50 AM CEPPComments, SAJ Glades plans From: Sent: To:

Subject:

One more thing: how will the Cape Sable Sparrow fare?

Mike



Miccosukee Tribe of Indians

Business Council Members Colley Billie, Chairman

Jasper Nelson, Ass't. Chairman Jerry L. Cypress, Treasurer

Andrew Bert Sr., Secretary William M. Osceola, Lawmaker

January 20, 2012

Colonel Alfred Pantano (Alfred.A.Pantano@usace.army.mil)
United States Army Corps of Engineers
701 San Marco Blvd.
The Prudential Building
Jacksonville, Florida 32207-8175

Via E-Mail and Express Mail

Re: Comments by the Miccosukee Tribe of Indians of Florida on the NEPA Scoping for the Central Everglades Planning Project (CEPP)

Attention: Dr. Gina Paduano Ralph at CEPPComments@usace.army.mil

Dear Colonel Pantano:

Enclosed, please find the official comments of the Miccosukee Tribe of Indians of Florida in response to your request regarding scoping for the Central Everglades Planning Project (CEPP) under the National Environmental Policy Act (NEPA).

For over 13 years, allegedly to protect the Cape Sable seaside sparrow, discriminatory water management actions have flooded and degraded hundreds of thousands of acres of Tribal Everglades in Water Conservation Area 3A that are vital to the culture and way of life of the Tribe. The high water levels caused by these actions also posed a threat to the health and safety of the Miccosukee community and brought the Snail Kite to the verge of extinction. Sadly, a vast area of the Everglades, which the government promised to preserve in a natural state *in perpetuity* for the Tribe, has been severely degraded.

Based upon our experts' review of the Corps' selected plan for the Everglades Restoration Transition Plan (ERTP) as presented in your recently released Final Environmental Impact Statement dated March 4, 2011, the Tribe is cautiously optimistic that the ERTP should begin to alleviate some of the harm in Water Conservation Area 3A caused by more than a decade of discriminatory water management actions. In addition, the Corps has an opportunity under the Combined Operational Plan for the Modified Water Deliveries and C-111 projects to move Everglades Restoration even further ahead. While this plan has yet to be developed, a water management plan that moves us farther toward

P.O. Box 440021, Tamiami Station, Miami, Elorida 33144, (305) 223-8380, fax (305) 223-1011 Constitution Approved by the Secretary of the Interior, January 11, 1962 restoration would make significant strides in protecting the Miccosukee culture and cultural resources once implemented.

Now, the Corps is proposing the Central Everglades Planning Project to develop a plan for a suite of projects in the Central Everglades to prepare for Congressional authorization as Comprehensive Everglades Restoration Plan (CERP). As you know, the Tribe has long raised concerns that vital restoration projects were being delayed and that the Central Everglades was being left out of the CERP process. Therefore, the Tribe is pleased to see an emphasis on projects for the central Everglades, which is the Tribe's traditional homeland. The Tribe, which has participated in more than twenty years of restoration planning, is concerned that to date no CERP projects that would benefit the Central Everglades, including Tribal lands, have been built. The Tribe is hopeful that the CEPP process will not turn into yet another planning process that produces no restoration results. In addition, care must be taken to ensure that projects are designed and implemented in such a way that they follow all applicable law. Finally, any so-called "new science" must not be used to attempt to justify sacrificing the Tribal Everglades in WCA-3A for the Park downstream. Thus, we believe it is very important that you sincerely consider, and adequately address, during your NEPA process, all the issues and concerns that have been identified by our experts if you are to actually achieve success.

As always, the Tribe expects that all agencies not only comply with all federal environmental statutes, but also with their Trust Responsibility to the Miccosukee people.

Finally, the Tribe hopes that the plan that is devised will treat all parts of the Everglades, and all species, equally and will only deliver water that is clean. Only by protecting all parts of the Everglades equally, and delivering clean water, will the goal of Everglades Restoration be achieved.

Sincere

Chairman

MEMORANDUM

TO: Chairman Colley Billie

Miccosukee Tribe of Indians of Florida

FROM: Mr. James Erskine, Acting Miccosukee Water Resources Director; Mr. Rory

Feeney, Miccosukee Wildlife Director; Col. (Ret'd) Terry L. Rice, PhD, PE;

Ms. Joette Lorion, Environmental Consultant

DATE: January 13, 2012

SUBJECT: Identification of Issues and Concerns to Be Addressed in the Central Everglades

Planning Project ("CEPP") National Environmental Policy Act ("NEPA")

Document Proposed by the US Army Corps of Engineers.

The following memorandum includes our expert analyses of the issues and concerns that the Army Corps of Engineers ("Corps") should address in the National Environmental Policy Act ("NEPA") document that the Corps plans to prepare related to the Central Everglades Planning Project ("CEPP"). The Notice of Intent to prepare an Environmental Impact Statement ("EIS") for CEPP was issued in the Federal Register on December 2, 2011. A Public Notice sent by the Corps stated that: "Public comments on the Central Everglades Planning Project are being accepted through January 20, 2012. Thus, we recommend that this memorandum be submitted to the U.S. Army Corps of Engineers on or before January 20, 2012, as the Miccosukee Tribe's issues and concerns.

Background: Beginning as early as the 1880s, humans began modifying the natural hydrology of South Florida and the Everglades. Over the years, anthropogenic changes have, among other things, removed areas from the natural system, caused some areas to flood while others are dried out, and, in general, stopped the natural flow of water through the Greater Everglades Ecosystem.

Finally in 1989, the U.S. Congress directed the U.S. Army Corps of Engineers to begin the restoration of flows through the Everglades "to the extent practicable" in Public Law 101-229, the Everglades National Park Protection and Expansion Act, which authorized the Modified Water Deliveries ("MWD") project. The February 1991 Environmental Impact Statement ("EIS") on the MWD project stated that the Everglades National Park Protection and Expansion Act authorized construction of the project based on "the environmental benefits to be derived by the Everglades ecosystem in general and by the park in the particular." EIS at 3. The 1992 Final EIS promised that the project would benefit approximately 100,000 acres of wetlands in NESR, 600,000 acres of wetlands in WCA-3, and 200,000 acres within the Shark River Slough Basin of the Park. FEIS at EIS-32. The expectation of Congress was that this project would be completed

by approximately 1997. Despite a Government Accountability Office ("GAO") Report and Congressional hearings on the delay of the MWD project, it is now 2013 and the Corps is still years away from total completion given the original scope of the project.

On a parallel track with the MWD project, the Corps agreed to modify C-111 South Dade components of the Central and South Florida project ("C&SF") in order to restore flows through Taylor Slough, which eventually enter Florida Bay. As with the MWD project, the C-111 modifications have been in the works for over two decades without being completed. The completion of both the MWD and C-111 projects, and an operational plan to implement them, are extremely important to the Miccosukee Tribe. This is primarily because they will permit increased water to move south through the historic flow path of the Everglades, thus relieving Tribal land in WCA 3A north of Tamiami Trail from unnatural inundation and ongoing, irreversible destruction.

While these two projects were being planned and implemented at a snail's pace, the Fish and Wildlife Service ("FWS") declared jeopardy on the Cape Sable seaside sparrow ("the Sparrow") in 1997 under the provisions of the Endangered Species Act ("ESA"). The draconian and discriminatory water management changes, which the Corps made at the behest of the FWS, further exacerbated the flooding of Tribal land. The Corps began with emergency deviations in December 1997, and followed these with the Interim Structural and Operational Plan ("ISOP") in 1999, and the Interim Operational Plan ("IOP") in 2002; each made the flooding of Tribal land progressively worse. As preposterous as it sounds, all of these operational plans moved the Everglades further away from the restoration and have not helped the "Sparrow."

In 2003, the Corps began planning operational rules for the day that the MWD and C-111 projects would be completed. This effort was dubbed the Combined Structural and Operational Plan ("CSOP"). Tribal representatives participated in more than 22 meetings of a CSOP advisory team formed by the Task Force under the mistaken assumption that all the interests actually supported the goal of finally operating these projects in a manner that would begin the restoration process. After four years of intensive work on the part of many, to include the Tribe's representatives, and a consensus agreement on the part of a large majority of participants, the Corps abandoned the CSOP effort. ENP, with the support of their environmental allies, refused to support the plan for clearly unjustifiable reasons, including that the proposed Alternative 5R would allegedly harm the western "Sparrow" subpopulation A. As discussed herein, this issue is both a red herring and contrary to Everglades restoration.

In reality, the CSOP hydrologic modeling had revealed the obvious: The implementation of the MWD project and more natural flows would make the "Sparrow" habitat south of the Miccosukee Reserved Area ("MRA"), which has been unnaturally dried out since 1997, much wetter. This revelation was in diametric opposition to the FWS demands to artificially dry this area out over the past 13 years. The dilemma that the Tribe had realized and expounded for years, was now front and center; water managers could either continue to 1) unnaturally dry out the western side of the Park or 2) restore the area ... not both.

During this same period, the FWS was responding to a lawsuit which required the Service to consider this area for designation as "critical habitat" under the provisions of the ESA. If this area was in fact designated "critical habitat," then it would have to be unnaturally dried out forever, and Everglades restoration would be permanently blocked. Based primarily on the Tribe's technical and scientific arguments, along with the Corps' modeling, the FWS rejected the establishment of this area as "critical habitat." The FWS was challenged in Federal Court, but, again, due to the Tribe's support in that case, the Judge upheld the FWS decision to not establish "critical habitat" and to permit Everglades restoration to move forward. The only question that remains now is when does the Corps start allowing more flows into this area, including through the S-12 gates under the contemplated Combined Operational Plan ("COP"), and eventually CERP, so that restoration can in fact commence both north and south of Tamiami Trail?

In 2010, after 13 years of discriminatory water management actions, purportedly for the "Sparrow," the Corps finally listened to two major points the Miccosukee Tribe had been making for years regarding these operations: 1) WCA 3A was being severely impacted by IOP and the previous "Sparrow" operations, as evidenced by the destruction that had been experienced, which is highlighted by the continuing loss of tree islands, the plummeting of the snail kite population from over 3,500 birds in 2000 to less than 700 in 2008, and the conversion of Everglades marsh habitat into a shallow lake, and 2) by far the most important, the "health and safety" of the Miccosukee Tribe was being threatened by operating WCA 3A at water levels well above its design specifications. This recognition by the Corps stemmed from the Tribe's Equal Protection lawsuit in which Tribal members and representatives, to include Chairman Colley Billie, gave testimony and resulted in the Corps' development of the Everglades Restoration Transition Plan ("ERTP"). As a result, the Corps issued a Final Environmental Impact Statement ("FEIS") in December of 2011, which proposed major changes to address the "health and safety" of the Tribe and the high water in WCA 3A. If the ERTP is finally implemented as proposed in the FEIS, the Tribe may finally be provided some relief from the damaging, discriminatory water management actions that have been going on for over 13 years.

In June 22, 2011, while the ERTP was in process, the Tribe provided NEPA scoping comments on the Combined Operational Plan ("COP"), which is the new acronym that replaced CSOP for the (CSOP operational plan that will be implemented once the construction of the MWD and C-111 projects is completed, which was once called CSOP. The COP will replace the ERTP when completed. If the Issues/Concerns that were provided to the Corps by the Tribe are adequately addressed, the COP has the potential of providing even more benefits for the Everglades and Tribe than the proposed ERTP promises to accomplish. However, since the COP has yet to be developed, and structures still need to be constructed, that remains to be seen.

In October 2011, with some CERP projects having been abandoned and others seriously delayed, the Corps and other announced yet another new planning effort to push forward certain central Everglades components of CERP. Yet another acronym was created and the Central Everglades Planning Project (CEPP) was announced with great fanfare. To date, the details of CEPP are

limited to power points, "fact" sheets, letters and a Federal Register Notice. The Federal Register Notice states that the goal of the CEPP effort is "to develop an integrated, comprehensive technical plan, including the first increment of projects, for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem." It identifies the CERP components that are included as the following projects: Area Everglades Agricultural Storage Reservoirs; Water Conservation Decompartmentalization and Sheetflow Enhancement; Everglades National Park Seepage Management; and Everglades Rain Driven Operations. According to a Corps fact sheet, "The goal of the Central Everglades Planning Project is to deliver within two years a finalized plan, known as a Project Implementation Report, for a suite of restoration projects in the central Everglades to prepare for Congressional authorization as part of the Comprehensive Everglades Restoration Plan (CERP)." It is difficult to discern from the scanty information whether CEPP will be just another endless planning effort or projects will actually be built.

The statement in the Federal Register Notice that, "Since 2000 much progress has been made," is highly misleading. Nothing could be farther from the reality of missed deadlines and abandoned projects. The Tribe has been contending for almost a decade that projects were being seriously delayed, and that the "heart of the Everglades," including Tribal Everglades, was being left out of CERP. Even the Committee on Independent Scientific Review of everglades Progress (CISRERP) echoed the Tribe's concerns. In its 2006 Biennial Review, CISRERP found that important projects necessary to re-establish sheet flow in the Everglades are, "far behind the original schedule." It further recognized that, "anticipated restoration progress in the Water Conservation Areas and Everglades National Park appears to be lagging behind the production of natural system benefits in other parts of the Everglades." The 2008 Biennial Review warned that, "Ongoing delay to South Florida ecosystem restoration not only has postponed improvements to the hydrological condition but also has allowed ecological decline to continue." The Review concluded that, "It's too early to evaluate the response of the ecosystem to CERP Projects because none have been implemented." It is disingenuous based on reality for the Corps to attempt to fool the public into thinking that "much progress has been made" or that it is expediting projects that have been seriously delayed.

While the Tribe is pleased to see after all these years that there is finally a focus on creating a plan to move projects for the Central Everglades forward, it remains to be seen whether CEPP will be yet another new acronym for yet another endless planning effort or whether projects to restore the Central Everglades will actually be built. The Tribe, whose entire culture and way of life depends on a healthy Everglades ecosystem has long sought for its traditional homeland to be restored. Yet, the Tribe cannot help but have any optimism that it might have tempered by the many plans that it has worked on for so many years, only to see them cast aside when politics intervened. In the Tribe's experience, it remains to be seen whether projects necessary to restore the "heart of the Everglades" will ever be authorized and implemented. Moreover, depending on how the plan is designed, and implemented, the CEPP could either benefit or harm Tribal lands and interests in the Everglades, especially since the State failed to meet the December 31, 2006

deadline to meet water quality standards in the Everglades Protection Area. Thus, the following comments are provided in response to a Public Notice by the Corps requesting scoping comments and must be addressed in the CEPP NEPA process.

Miccosukee Tribe Issues/Concerns That Must Be Addressed in the NEPA Process Include:

- An EIS Is Required: The CEPP formulation and implementation will have "a significant impact on the human environment." Therefore, the document that is required to be prepared by the Corps under the National Environmental Policy Act ("NEPA") must be an Environmental Impact Statement ("EIS").
- All Applicable Law Must be Followed: While the Tribe is not opposed to the significantly delayed CERP process becoming more efficient, it is opposed to any streamlining that comes at the expense of compliance with all applicable laws. As always, the Tribe expects the Corps to comply with the National Environmental Policy Act ("NEPA"), the Endangered Species Act ("ESA"), the Federal Advisory Committee Act ("FACA"), the Clean Water Act, the U.S. Constitution, the Corps' Trust responsibility to the Tribe, and all other applicable laws.
- ERTP, Not IOP, Should Be the Base Condition: The Corps concluded in the Final Environmental Impact Statement (FEIS) on the Everglades Restoration Transition Plan ("ERTP") that, due to safety and endangered species concerns, that "IOP is no longer a viable option" for water management within WCA-3A and the South Dade Conveyance System." ERTP FEIS at xiii. The Corps argued when it stopped using the Test 7 operational plan as a base condition in the EIS process that it could no longer be used because it was contrary to the ESA. Similarly here, the Corps cannot rely on IOP as the base condition for CEPP in the NEPA process, because it is not viable. In addition, the ERTP should be replacing IOP in the very near future and prior to any NEPA document being produced.
- Ensure No Adverse Impacts to Miccosukee Tribe Culture & Cultural Resources: Corps' analysis and planning often do not adequately take into consideration the impacts of Corps project operations on the Miccosukee Tribe's Culture and Cultural Resources, before most projects/actions are authorized for implementation. The Corps must perform a comprehensive review of all potential adverse impacts of all proposed actions under the CEPP on the Miccosukee Tribe's Culture and Cultural Resources in the action area, which includes WCA-3 and the Park, and ensure that any adverse impacts are eliminated prior to implementation of the selected alternative. Certainly, the assurance of the "health and safety" of the Tribe must be paramount.
- <u>Must Produce Benefits for Tribal Lands in WCA 3A</u>: The CEPP process should incorporate a revised WCA-3A regulation schedule targeted at the restoration of the entire central Everglades that incorporates a multispecies management approach building upon what was achieved with the ERTP and hopefully will be achieved under COP. Any regulation scheduled developed in the CEPP process must provide restoration of the Tribal Everglades in

WCA-3A, as well as the Park. The Corps must be careful during the NEPA process not to succumb to unreasonable demands by the Park, or any other interests, to provide more water than the CEPP can reasonably deliver without sacrificing other areas of the Everglades, such as the Tribal Everglades in WCA-3A. The pursuit of the unnecessary, unreasonable, and impossible often prevents the achievable. The Tribal Everglades must benefit from CEPP.

CEPP Must Decrease WCA 3A Flooding: WCA-3A water levels must become more natural as defined by the Natural Systems Model ("NSM") and the CERP documented -1 foot below to +2.5 feet above ground envelope to protect the few remaining tree islands. According to the December 2011 FEIS on the ERTP, for WCA-3, the result of lowering Zone A and extensions of Zones El and D can be seen in the modeling for the southern areas of WCA 3, such as Indicator Region 124, Figure A-H-7 and Figure A-H-8. FEIS at 4-36. The FEIS explains that the stages show a significant reduction (by as much as 0.2 or 0.3 feet) from about the highest 5 percent to about the 50% of the time range. Id. The results of lowering the zones under the ERTP Alternative 9E1 can be seen in Figure A-H-10 for the southern areas of WCA 3A. The number of high weeks (392) under the current condition (IOP) was reduced to 252 weeks under Run 9E1. Id. According to the FEIS, this equated to a 36 per cent reduction in exceedance of the high water stage criterion with no increase of low water events. Id. The modeling also shows that the numbers of weeks of sustained high water above 2.5 ft. in Indicator Region 14 has been reduced from 412 weeks under IOP to 260 weeks under ERTP 9E1. See FEIS at B-1-99. The Corps concluded: "The alternative that best met the ERTP objectives of improving conditions within WCA 3A for the snail kite, wood stork and other wildlife species, while maintaining protection for the CSSS and meeting Congressionally-authorized C&SF Project purposes, became the ERTP." FEIS at 2-31. Alternative 9E1 is the recommended plan. FEIS at xiii. CEPP must reduce damaging high water levels in WCA 3A even more than the proposed ERTP and the anticipated COP. So-called "new science," which in many cases is old science that has been discarded, must not be misused as an excuse to drown the Tribal Everglades to provide more water to the Park downstream.

Health And Safety Must Be a Priority: The Corps' recent FEIS for the ERTP quotes a letter of Miccosukee Tribal Chairman Colley Billie which states: "For far too many years, as a direct result of discriminatory water management actions, hundreds of thousands of acres of Tribal everglades in Water Conservation Area 3A have been flooded and degraded ... It has threatened the health and safety of the Miccosukee community." FEIS at 4-89. In 2008, the Tribe filed an Equal Protection lawsuit, pending in the Eleventh Circuit Court of Appeals, that detailed the threats that these discriminatory water management actions posed to the Tribal Everglades in WCA-3A, and to the health and safety of the Miccosukee people. In July 2010, the USACE Water Resources Engineering Branch (EN-W) conducted a review of the original General Design Memorandum for WCA-3A. See ERTP FEIS at 1-19; see Memo of Sean Smith as Exhibit A. Based upon the results of this review, the Corps concluded that a rigorous evaluation of the Standard Project Flood conditions within WCA-3A should be conducted. Id. As a result of the Corps' Phase I analysis of high water events, the Corps discovered that "based on

current system conditions as simulated in the water budget spreadsheet, the current configuration of WCA-3A would result in an increase in the SPF stage for WCA-3A of between 1.3 and 1.4 feet compared to the WCA-3A design assumptions." Id. Through this analysis, the Corps also discovered the blindingly obvious: "that peak SPF stage is increased over the original design due to the reduction in outlet capacity from WCA-3A through the S-12s." Id. The Corps recognized that the "Discharge through the S-12 structures is essential for managing the WCA-3A SPF peak stage." FEIS at A-5-33. The FEIS concluded that: "Leaving IOP in place is not an acceptable option due to the snail kite habitat issues and L-29 levee high stage concerns." FEIS at G-1-10. In light of this safety analysis, the FEIS concluded that it is "prudent for the USACE to recommend the lowering of Zone A of the WCA-3A Regulation Schedule as a risk reduction measure." FEIS at 1-20. The FEIS further concluded that the 1960 WCA-3A 9.5 to 10.5 feet, NGVD Regulation Schedule is a "required component for the interim water management criteria for WCA-3A Zone A under ERTP, necessary to mitigate for the observed effects of the discharge limitations of the S-12 spillways." Id. In light of these findings, any CEPP water management actions that may impact water levels in WCA-3 must account for the specific flood stage of the L-29 levee system as detailed in the US Army Corps of Engineers 2011 General Design Memorandum for WCA-3A. (see Exhibit A attached). This is vital to protecting the Miccosukee community located downstream of the L-29 levee. Finally, any safety studies that have been, or are being, conducted on the L-31 levee and the Lake Okeechobee dike must also be taken into account. Health and safety of the Miccosukee Tribe, and the public, must be the top priority in the CEPP process.

- <u>CEPP Must Incorporate Storage As a Priority</u>: As with water quality treatment, storage must also be incorporated. The nutrient enriched flows that are discharged from Lake Okeechobee could easily overload the current stormwater treatment system, and impact the Everglades wetlands. Incorporating storage facilities must be a central component of the CEPP and should be scheduled for construction and implementation early in the sequencing process. It is a tragedy that the Everglades Agricultural Area ("EAA") Reservoir Phase 1, one of the first CERP projects, was abandoned after many months of construction and an expenditure of more than \$250 million dollars. If the EAA Reservoir Phase 1 had not been abandoned, both it and the Bolles and Cross Canal Projects, could have been completed by December 2009. Additionally, although the EPA Amended Determination stated that a Flow Equalization Basin ("FEB") built on this site could meet the Water Quality Based Effluent Limit in WCA-3 by 2013, no action has been taken to build an FEB on this site that was paid for by federal tax dollars. Constructing storage at the soonest must be a priority if CEPP is too succeed.
- Rehydrate Only With Clean Water to Protect Northern WCA-3A and WCA-3B: Flows into the dry areas of northern WCA-3A and through WCA-3B should be restored to the greatest extent practicable toward achieving historical flows and levels and only if the water is clean. Dirty water, i.e. water containing concentrations of phosphorus greater than 10 ppb should never be utilized for rehydration of unnaturally dried out areas. In general, CEPP should never

permit rehydration with dirty water and should always strive for natural flows and levels to the greatest extent practicable.

• CEPP Must Incorporate Solutions to Stop Western Basins Pollution: Any project truly geared at delivering more water clean water to the "Central Everglades" must incorporate solutions for the western basins. Discharges through the S-140 and the S-190 water control structures continually deliver phosphorus laden waters onto Tribal lands and into WCA-3A. Recent data from the 2011 South Florida Environmental Report shows that the combined discharge from the S-140 and S-190 water control structures comprised nearly 30% of the total phosphorus load discharged to WCA-3A. The S140 water control structure discharged 9.2 metric tons of phosphorus with a FWMC of 55 ppb directly onto Tribal lands and into WCA-3A. This was the single largest structure discharge into WCA-3A in 2010. The S-190 water control structure discharged 7.6 metric tons of phosphorus with a FWMC of 73 ppb directly into the L-28 Interceptor canal, which terminates on Tribal lands in WCA 3A (2011 SFER Appendix 3A-5). The SFWMD inflow station at the terminal end of the L-28 Interceptor canal had a discharge geometric mean phosphorus concentration of 65.2 ppb in WY 2010 (SFER 2011; Appendix 3-4).

The combined impacts and phosphorus load from these discharges has had a devastating effect on Tribal lands and WCA-3A. The Central Everglades Planning Process provides an invaluable opportunity to develop and implement solutions that will cooperatively benefit Tribal lands and the water conservation area. These solutions were outlined in the Comprehensive Everglades Restoration Plan (CERP) and in the Big Cypress - L-28 Interceptor Modifications Project description which calls for canal modifications and water quality treatment for these basins:

Big Cypress - L-28 Interceptor Modifications Project (www.evergladesplan.org)

Modification of levees and canals, water control structures, pumps, and stormwater treatment areas (with a total storage capacity of 7,600 acre-feet) will re-establish sheetflow from the West Feeder Canal across the Big Cypress Reservation and into the Big Cypress National Preserve, maintain flood protection on Seminole Tribal lands, and ensure that inflows to the North and West Feeder Canals meet applicable water quality standards. Upstream flows entering the West and North Feeder Canals will be routed through two stormwater treatment areas to be located at the upstream ends of the canals. Sheetflow will be re-established south of the West Feeder Canal consistent with the Seminole Tribe's Conceptual Water Conservation System master plan.

The Central Everglades Planning Process is the time to initiate the long overdue planning process for the CERP Big Cypress - L-28 Interceptor Modifications and provide a solution for the devastating discharges from the L-28 Interceptor Canal and the S-140 water control structure.

 No More Dirty Water, No Rehydration with Dirty Water, & No Use of WCAs As De Facto STAs: Unlike a lake or a stream in which pollutant discharges undergo relatively quick and complete mixing, the Everglades is being eaten away by P pollution like a cancer. Cancer starts at a point and eventually spreads throughout the body unless stopped. Like a cancer, phosphorus pollution eats away from the points it enters the Glades, and continuously spreads further and further into unimpacted areas. It will eventually destroy the vast majority of what's left, if not the entire Everglades, unless it is stopped.

If damage occurred until the cause of the damage was stopped, and was then reversed in approximately the same time it took to cause that damage, this damage would be considered reparable, or reversible. This is not what occurs in the Everglades. Recreating tree islands and extracting high concentration of phosphorus from the soil may never be achieved by nature except in geological timeframes; and extirpated species will never be replaced. Even if humans could reverse the damage in a shorter time, which at present they cannot, it would certainly be cost prohibitive, and require many, many years to complete. Whether these restorations can be achieved is unknown, and, if they could, the time to achieve them is centuries, millennia, or longer. Even in the best case scenario, this damage is, for all intents and purposes, irreparable. It only makes sense that stopping this irreparable damage is the prudent first step to restoration, and, in the minds of many, including the Miccosukee Tribe, the mandatory first step.

It should be clear to all that restoration of the Everglades has not begun, as the Everglades continues today to be irreversibly destroyed. Restoration can only begin once the irreversible damage is stopped, and that day is, at best, far in the future.

The water quality issue was supposed to have been resolved by December 31, 2006 when the State, now under an Order of the Court, was supposed to have achieved inflows into the Everglades that ensured the Water Quality Standard was being met. The State's meeting this deadline in a timely fashion was a base assumption of the CERP Restudy, and the success of CERP, in accordance with the projected schedule, depended on it. However, this has yet to be achieved, and under the current best case scenario, may not be achieved until 2020. There is a possibility under the EPA Amended Determination that the Water Quality Based Effluent Limitation ("WQBEL") for WCA could be met by 2013 if a Flow Equalization Basin ("FEB") on the Talisman land was constructed, but no such reservoir is even being planned let alone being constructed. Moreover, as all who work on Everglades restoration know, the best case scenario is rarely, if ever, realized.

In addition, CISRERP has invited an analysis of "trade-offs between water quality and quantity," which opens the door wide for those who would destroy one part of the Everglades for the benefit of another. At the heart of this is the utilization of vast areas of the Everglades (both WCAs and Tribal Land) as de facto STAs. To permit the State to utilize Tribal Land as STAs in order to achieve 10 ppb P in the Park is diametrically opposed to actually restoring the Everglades, contrary to the Consent Decree and the Clean Water Act, and anathema to the Miccosukee Tribe. The Tribe will not permit Tribal land to be utilized as an STA.

Therefore, the Tribe does and will not support a CEPP that 1) increases the amount of dirty water brought into the Everglades Protection Area, or 2) restores flows to the

Everglades Protection Area with dirty water, until the restoration water meets the 10 ppb P criterion mandated by the Clean Water Act. Even more, Tribal land will not be utilized as an STA. The 10 ppb P criterion must be a major performance measure in CEPP and water quality must be thoroughly analyzed and evaluated in the CEPP process.

- No More Dirty Water Water Quality Must Be Met: The Federal Register defines the primary objective of the CEPP as follows: "The next step for the implementation of CERP is to redirect water that is currently discharged to the east and west coast estuaries from Lake Okeechobee and restore flow to the South..." The CEPP process cannot attempt to restore more water into the central Everglades from the north, i.e. from the Everglades Agricultural Area ("EAA") and Lake Okeechobee until the State meets water quality standards in the water being delivered to the Everglades Protection Area. The State of Florida failed to meet the December 31, 2006 deadline, as recognized by Judge Gold, to ensure that waters discharged to the Everglades Protection Area meets water quality standards, including a numeric criterion of 10 ppb Phosphorus ("P"). Thus, waters discharged from Lake Okeechobee are laden with pollution. The most recent data for the 2011 South Florida Environmental Report shows that the open water Lake total phosphorus concentrations were 118 ppb for WY2010 and had a five year average of 172 ppb (2011 SFER; Table 10-12). To accomplish the stated goal of redirecting Lake Okeechobee flows south, while maintaining the water quality standards as a constraint, as presented and discussed at the Water Resources Advisory Commission (WRAC) on Thursday, January 6, 2012, treatment must incorporated. Without the appropriate treatment, redirected flows from Lake Okeechobee will greatly increase the nutrient loads to the water conservation areas, causing further degradation of Tribal lands within the Everglades ecosystem." Once flow at natural rates, levels, and quality is "practicable," then, and only then, should more water be brought into the Everglades; given the current rate of progress, this is many years into the future, if ever.
- No Trade-Offs Permitted: One hears discussions at times about trade-offs" in Everglades restoration. Although not clearly nor precisely framed, CISRERP has invited an analysis of "trade-offs between water quality and quantity," which opens the door wide for those who would destroy one part of the Everglades for the benefit of another. At the heart of this is the utilization of vast areas of the Everglades (both WCAs and Tribal Land) as de facto STAs in the restoration process. The Tribe is concerned that under the guise of "new science" some will attempt to use the CEPP process to seek a plan that forces large volumes of water through some areas, like WCA-3A, for the possible benefit of other areas, like the Park to the south. These are not new arguments, but old ones previously rejected and now being recirculated. There was much discussion during the Restudy process about how too much water could devastate the last vast expanse of sawgrass left in existence in WCA-3A. It was decided that all areas of the Everglades were to be restored. The Tribe is deeply concerned by the so-called "new science" that some are using to support sending greater volumes of water through the Everglades than was envisioned by CERP. It should be noted that much of the modeling on this new science that was done did not take into account any constraints for water supply, flood control, or the fact that half of the

Everglades is gone. The Tribe will resist any effort to drown the Tribal Everglades for the alleged benefit of the Park downstream. As discussed in the section on endangered species, Tribal lands and the endangered snail kite have suffered from the high water effects of discriminatory water management. The Miccosukee Tribe never endorsed "trade-offs", which is essentially "Animal Farm" equality for the Everglades, or the use of Tribal land as a de facto STA. Using the Tribe's Everglades in WCA-3A as a de facto STA to clean the water before it gets to the Park is also specifically prohibited by the Consent Decree (Judge Moreno's Court). CEPP must endorse as a guiding principle that no area of the Everglades will be destroyed/sacrificed for the benefit of another are of the Everglades by planned CERP projects, or for that matter, any proposed project.

- CEPP Must Not Delay Already Delayed MWD Project Components: According to the Congressional Research Service ("CRS") Report to Congress dated March 17, 2005, "Mod Waters was originally estimated to be completed by 1997, yet some now argue it is unclear when or even whether the project will be completed." Another study on the delay of the Modified Water Deliveries Project ("MWD Project") conducted by the Inspector General of the Department of the Interior dated March 2006, discusses the cost of delay: "The Corps estimates that damage to tree islands resulting from the current high water levels could be as much as 246 acres per year and the cost to restore the islands ranges from \$12.3 million to \$123 million per year." The CRS Report further stated that: "Section 601(b)(2)(D)(iv) of WRDA 2000 provides that Mod Water must be completed before appropriations can be made to construct other restoration projects in the east Everglades." Moreover, the 2006 Biennial Review by CISRERP warned that: "Since the Mod Waters Project is an assumed precursor for the WCA-3A Decomprtmentalization and Sheetflow Enhancement part 1 (Decomp) project, further delays in the project's completion may ultimately delay funding appropriations for Decomp." The committee recommended that: "Mod Waters should be completed without further delay." In its 2008 Biennial Review CISRERP warned, "If this relatively modest restoration project cannot proceed and provide some restoration benefits, the outlook for CERP is dismal." The CEPP must not be used as an excuse to bypass Congressional intent or to delay the construction of vital MWD Project components, which have already been seriously delayed. The Tribe is concerned that some will attempt to delay important aspects of this project by incorporating them into the CEPP, which may never be authorized. The Tribe will be opposed to any attempt to do so. Completion and implementation of the MWD Project must be a pre-condition to the CEPP and a "without project condition" under NEPA.
- <u>Decompartmentalization of WCA-3</u>: The Tribe agrees with the CISRERP that, if MWD does not get completed, the outlook for CERP is dismal and, unfortunately, the MWD Project is still far from completion. The CERP Decompartmentalization Project is also well behind the scheduled January 2010 completion date for construction of certain components contained in Section 10 of the Yellow Book. The Tribe cannot help but wonder if this new planning effort, with a new acronym, was devised to obfuscate this important fact. However, in the event that the

CEPP planning effort actually moves forward, plans for the Decompartmentalization of WCA-3 should incorporate more than the hydrologic modification features proposed for north of I-75 by the DECOMP PDT Team. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for removal in addition to the entire Maimi canal and L-67 canal system to truly provide restoration of the "Central Everglades." As the Decompartmentalization of WCA 3 progresses, careful and consistent consultation with the Tribe should take place to ensure that the cultural meeting places of the Miccosukee people and Tribal camps are not adversely impacted.

- Analyze Expanding the Capacity of S-333: All water that the Park desires for rehydration of Northeast Shark River Slough cannot flow through WCA-3B without causing significant irreversible destruction. As much water as is naturally possible should be funneled through WCA-3B, and, if more is available to satisfy the desires of the Park, then it should be provided via S-333, at least until the CERP eastern rehydration projects are completed. In order to provide this additional water, the CEPP should look at increasing the capacity of S-333. During the development of "Sparrow" deviations in the late 1990s, it was decided to increase the S-333 capacity from 1,350 cfs to 2,000 cfs, as documented in the 2002 IOP Final EIS, but this was never accomplished. The tentatively selected plan for COP also included the same increase in capacity for the S-333 structure, but COP was abandoned. It is only prudent to finally analyze increasing the size of S-333 in order to ensure the Park can receive the higher volumes of water at a faster rate that it claims it needs.
- <u>8.5 Square Mile Area Must Be Protected</u>: After years of debate, a project to protect the people of the 8.5 Square Mile Area ("8.5 SMA") from project induced flooding was authorized by Congress and constructed by the Corps of Engineers. There still are many associated with the Park that would like to see the remaining homes removed; under the mandate of Congress, this is not going to happen. The Corps must ensure the people of the 8.5 SMA are afforded the protection they are authorized, and must not let another 8.5 SMA debate paralyze the restoration process and stop the CEPP from being implemented.
- <u>CEPP Transitional Plan Is Essential</u>: There remain several components of both the MWD and C-111 projects that must be formulated, designed, and constructed. These components will not be all completed at the same time; it will take years for all to be completed. Similarly, the components of the different projects that will constitute the CEPP to deliver what the Corps refers to as "incremental" restoration will also come on line at different times. Thus, the CEPP should contain a transitional plan that implements beneficial operational changes once each new component of the Pre-CERP and CERP projects is completed.
- No Operation of the S-356 Pump Station: The Miccosukee Tribe will not support the operation of the S-356 pump station as a component of CEPP. There are three primary reasons:

 1) water quality issues exist which have not been adequately addressed (Note: Among the potential/existing water quality issues, testing and analysis to date of S-356 pumped water have

found zero dissolved oxygen, along with a very strong odor of sulfur; changes in the concentration, load, and distribution of P flows into the Park resulting from the use of S-356 have not been analyzed rigorously vis-à-vis the Consent Decree, and there is clear potential for an increase in the number of Consent Decree violations), 2) the net result of the use of S-356 is pumping water in a circle, i.e. S-356 pumps into L-29 Canal, L-29 water flows into NE Shark River Slough in the Park, then seepage of this water enters the L-31N, and, then again, S-356 into L-29 Canal, which is clearly not restoration, and 3) most important to the Tribe, the pumping into the L-29 Canal from S-356 reduces the flow through S-333 into the L-29, and, thus, results in higher water in WCA 3A and Tribal land. This latter consequence of S-356 utilization results in adverse impacts to Tribal lands in WCA 3A and the endangered snail kite and its critical habitat. The S-356 pump station has no redeeming value at this point, and probably never will, and it certainly should be eliminated from consideration in the formulation of CEPP.

- Address Seepage Control As A Critical Requirement: Seepage out of Northeast Shark River Slough in ENP remains a huge impediment to restoration. Simply and directly stated, the restoration of ENP and the entire Everglades cannot be achieved until the seepage between S-335 and G-211 is adequately managed. CEPP must recognize this debilitating seepage limitation and be formulated to appropriately account for it.
- 1-Mile Eastern Bridge Should Be Plugged: The Tribe continues to strenuously object to the construction of the 1-Mile Eastern "Bridge to Nowhere" and contends that it is a waste of taxpayer money that will continue to delay the MWD project. Moreover, given the facts that additional flows into Northeast Shark River Slough are severely limited by seepage into the L-31N Canal, and that the 1-Mile Eastern Bridge that is now being constructed will concentrate current and additional flows on the eastern side of the Park, it is clear that the bridge should not be utilized until the seepage challenge is met. The Corps even predicts that the flow across Tamiami Trail will increase by over 15% once this bridge is complete without even changing operations, i.e. the seepage challenge will be exacerbated just by merely constructing the bridge. The proposed COP and CEPP NEPA processes must analyze this potential flooding threat, which could adversely impact the Miccosukee Resort, and other Miami-Dade County properties. The openings under the bridge should either 1) remain blocked by leaving the existing Tamiami Trail in place, or 2) be blocked by fill, sheet pile, or some other technique, until the seepage challenge is appropriately met, thus forcing more of the flow to the west in Shark River Slough where seepage is much less of an issue.
- Reduce/Eliminate the "Big Red Arrow": The "Big Red Arrow," i.e. the arrow depicted on water budget schematics depicting the huge amounts of water forced south out of the L-31N Canal into the area of Homestead and vicinity since the enlargement of the L-31N in the early 1980s, must be reduced to the maximum extent practicable. If not, the people of South Miami-Dade will be continue to be flooded beyond the level of protection authorized by Congress, and

the CEPP clearly has the potential to exacerbate this already bad situation. Therefore, CEPP should have as a primary goal the elimination of the "Big Red Arrow."

- Maintain the G-3273 Trigger Gage: Uncontrolled, high volumes of seepage into the L-31N Canal can cause and has exacerbated flooding in the built portion of Miami-Dade County, which includes Miccosukee property. Seepage also causes the "Big Red Arrow," which specifically leads to increased flooding in southern Miami-Dade. Historically, this seepage has been somewhat managed by discontinuing the controllable inflow of water into Northeast Shark River Slough when the G-3273 gage rises 6.8 feet NGVD. Until seepage, and, thus, unacceptable flooding, are adequately addressed, there is little reason to believe that G-3272 trigger well is not going to remain a critical part of the water management system under CEPP.
- <u>Clear Downstream of the Culverts to Increase Flows</u>: In 2009, the Park commissioned a professor from the University of Miami to evaluate the effectiveness of culvert swales in increasing flows from the WCAs to ENP. The culvert-swale approach is one method for effectively clearing the accumulation of sediment, vegetation (to include invasive exotics), detritus, and, literally, garbage downstream of the Tamiami Trail culverts that is significantly reducing the flows from north to south, *i.e.* rather than actually remove the blockage, swales enable the water to move around it. In January 2010, Dr. David A. Chin, PE, published his report. Dr. Chin's analysis indicates that the Miccosukee long-held position is correct, *i.e.* clearing downstream of the culverts will significantly increase flows (Note: It also reconfirms at least 2 prior studies done by the Corps). Key points from the report follow:
 - Even the most modest swale considered, *i.e.*, 500' by 30', at a constant L-29 stage of only 6.0 feet NAVD, will likely increase flows by 60% at one culvert set and 250% at the other ... the most robust swale considered, *i.e.*, 1500' by 30', will provide for a 200% and 560% increase at the same culvert sets, respectively.
 - Even a worst case scenario for both culvert sets during sensitivity analysis provided for a 48% and 200% increase in flows with the 1500' by 30' swale option, while an equally plausible, but more favorable, marsh resistance increased flows by 520% and 830% for the same swale option.
 - Adding another culvert set at the swale locations provided only a little improvement in increased flows.
 - Replacing the culverts by bridges at the swale provided improvements, but not nearly as great as the increased flows predicted for simply building the swale.
 - When a bridge is simulated to replace the existing culvert set: "... it should be noted that, for a given spreader-canal configuration, water deliveries are independent of the bridge span as long as stage differences across the bridge opening are relatively small [which is the normal condition]."

These new and independent scientific engineering findings provide great hope for major, quick improvements in the condition of the Everglades at a very reasonable cost. Dr. Chin's work convinced the Superintendant of ENP to conduct an actual Pilot Swale Project to evaluate Dr. Chin's findings in the field; although this pilot project was supposed to be implemented by October of 2010, it appears that the work now been cancelled. Given that the evidence and possibilities are so compelling, and the deteriorating state of the Everglades so dire, the Corps should move forward with full scale swale projects immediately, and analyze the increased flow capabilities of such swales as a component of the CEPP EIS.

- Clear Downstream of the S-12s & Implement Other Measures Needed to Increase Flows: The same hydraulic principles employed by Dr. Chin to the culvert swales also apply to the S-12s. Clearing downstream of these structures provides more opportunities for further increasing flows through the Everglades. Especially increasing flows from WCA 3A, which is flooded much of the time, to an area in the Park that has been unnaturally dried out over many years. In preparation for the development of the ERTP, the Corps performed an analysis of current water levels in WCA 3A vis-à-vis the 1960 and 1972 design specifications and expectations, and reported the results in MEMORANDUM FOR SAJ LEVEE SAFETY OFFICER (DUBA), Subject: EN-W Position Statement on WCA-3A Regulation Schedule Modifications, 9 September 2010. Major findings are [emphasis added]:
 - Actual water levels are much higher than those for which WCA 3A was designed—
 "The analysis illustrated that under the current system conditions, as represented in the spreadsheet, the peak SPF S-12 headwater stage was computes 13.76 ft, NGVD and the peak SPV WCA-3A three gage average stage was computed as 15.20 ft, NGVD. The comparison of peak stages between the 1960 GDM WCA-3A design and the 2010 WCA-3A volumetric spreadsheet predictions indicate that the predicted SPF stage is higher than the WCA-3A design stages established in the original GDM and used to set the asbuilt crest elevation of L-29: 1.36 feet higher at the headwater of the S12 structures; 1.3 feet higher at the three station average for WCA-3A."
 - S-12 flows are crucial achieving lower water levels "Sensitivity analysis performed utilizing the 2010 WCA-3A volumetric spreadsheet tool illustrated that the peak SPF stage is most sensitive to the amount of outflows being discharged from WCA-3A, with the primary outlet being the S-12s ..."
 - Must lower top of regulation schedule to the design envelope of 9.5 10.5 feet to mitigate for the S-12 discharge limitations "... EN-W has concluded that the lowering of Zone A of the current WCA-3A Regulation Schedule to the 9.5-10.5 feet NGVD regulation schedule line from the 1960 GDM will provide an interim step to mitigate for the observed effects of the S-12s discharge limitations."
 - Much more than reducing the top of the regulation schedule is needed to lower water in WCA 3A "The inclusion of the lowering of Zone A of the current WCA-3A Regulation Schedule within the proposed alternatives of the ongoing ERTP NEPA effort

is a minimum requirement to demonstrate compatibility with the required interim water management criteria for WCA-3A. Additional water management operating criteria to further reduce the frequency and duration of high stages within WCA-3A should also be considered within the context of other ERTP Project considerations."

- Decisive and prescribed measures are needed now to decrease the risk to "human health and safety" "The ERTP Project's water management operating criteria should include the establishment of operational constraints at the S-12 structures based upon safety considerations for WCA-3A features and pertinent downstream areas, including the identification of infrastructure modifications to be implemented on a temporary basis to allow the reduction of risk to human health and safety. The stability analysis of the S-12s is predicated on a maximum design headwater stage of elevation 12.4 feet NGVD with the differential head across the structure limited to 5.5 feet; also, the as-built crest elevation of L-29 and crown elevation of Tamiami Trail (US-41) in the S-12A to S-12D reach has been established to protect against the risk of overtopping from an adjacent flood stage of elevation 12.4 feet NGVD. The exceedances of these design conditions should be considered an immediate increase in risk to the human, health and safety afforded by the project feature and would require decisive and prescribed measures to reduce the WCA-3A stage."
- ERTP alone will not sufficiently reduce the risk to human health and safety ... more is needed! "Outside of the ERTP project, additional NEPA assessment would be required to implement infrastructure modifications on a temporary basis to allow the reduction of risk to human health and safety, or to implement other permanent structural alternative which may result from the future phase 2 analyses. Considering the limitations on discharge through the S-12 structures, downstream conveyance improvements at the S-12 structures (potentially including removal of portions of the old Tamiami Trail) or additional outlets are required to mitigate for increased SPF stages within WCA-3A."

In the Corps Draft ERTP EIS published on March 4, 2011, the Corps reiterated the importance of clearing the downstream blockages of the S-12 structures, as well as other measures to increase the flow out of WCA 3A.

5.0 Conclusions (DEIS at A-5-41) [emphasis added]:

- The predicted SPF stage is higher than the WCA-3A design stages established in the original GDM and used to set the as-built crest elevation for L-29.
- Outlet capacity of the S-12s has either reduced over time OR was never as large as assumed for the original design routings.

¹ The Tribe's takes exception to the word "OR" which should be "AND" as it is clear from the evidence, including e-mails from Corps Staff, that: 1) the S-12 design flows were never achieved and 2) the capacity of the S-12s has decreased over time based on analysis of the rating curves over time.

- The peak SPF stage is not sensitive to modifying the top (i.e. Zone A) of the WCA-3A Regulation Schedule. The peak SPF stage is most sensitive to the amount of outflows being discharged from WCA-3A, with the primary outlet being the S-12s.
- Considering the limitations on discharge through the S-12 structures, additional outlets are required to mitigate for increased SPF stages.
- The most effective additional measure investigated to alleviate the problem involves further degradation of the L-28 to increase outflows; however, the downstream effects of this action cannot be adequately addressed with the spreadsheet model routing and would require a more robust hydraulic analysis.
- Implementation of the Modified Water Deliveries Conveyance and Seepage Control Features would also provide additional outlet capacity.

7.0 Recommendations for Future High Water Control

- Remove key sections of the Old Tamiami Trail to reduce current impediments to flow out of WCA-3A.
- Investigate the possibility of changing the operating criteria at S-343A, S-343B, and S-344.
- Perform S-12 downstream conveyance improvements, such as vegetation cleanout.

ERTP has proposed major steps to decrease water levels in WCA 3A. If the Recommended Plan for the ERTP is implemented it should lessen the now recognized and documented risk to human "health and safety," to include a major threat to the members of the Miccosukee Tribe. But clearly, the Corps' own analyses specifies that more must be done to increase flows out of WCA-3A. Additional measures that need to be addressed in the CEPP EIS include 1) clearing downstream of the S-12 structures, 2) removing as much as possible of Old Tamiami Trail, and 3) further degrading of the L-28 levee. These, and other measures that might help, need to be planned and analyzed in the CEPP EIS and implemented at the soonest.

• Impact on Endangered Species Must be Assessed – Multi-Species Approach Is Essential: The CEPP EIS must analyze the impacts of operation of these CERP projects on all endangered and threatened species in the action area, which includes Lake Okeechobee, the northern estuaries, all of the WCAs and the Park. Such an analysis would include the impact of operations on the Tribal lands in WCA-3A, and on the endangered snail kite and its critical habitat there. Both the snail kite, and its critical habitat in WCA-3A, have suffered an alarming decline under the past thirteen years of discriminatory water management. These draconian actions, purportedly for the Cape Sable seaside sparrow ("Sparrow)., moved the Everglades, including Tribal lands, further away from restoration. As a result of these water management actions, which include IOP, the Everglade snail kite that lives on Tribal lands has suffered an

alarming decline reported at more than 50%, which is actually even greater. See ERTP FEIS at 3-26. This decline is a direct result of more than thirteen years of S-12 gate closures, which degraded thousands of acres of snail kite critical habitat on Tribal lands in WCA-3A.

The Miccosukee Tribe, whose members have called the Everglades home since time immemorial, objected to these single-species water management actions on grounds that they would cause the damage the Tribe has witnessed. The ERTP FEIS confirms that damage to both WCA-3A and the snail kite has taken place. The FEIS states, "the snail kite population has progressively and dramatically decreased since 1999 ... the snail kite population essentially halved between 2000 and 2002 from approximately 3,400 birds to 1,700 birds; and halved again from approximately 1,500 to 1,600 birds in 2006, to approximately 685 birds in 2008." FEIS at 3-26. The estimated 2009 population size of 662 birds indicates that there is no sign of recovery (Cattau et al. 2009)." Id. A review of Table 3-1 in the FEIS shows that number of successful nests, and young fledged, have declined dramatically since the Corps began implementing the S-12 gate closings in 1998. Id. and Table 3-3. "WCA- 3A has been previously identified as the most critical component of snail kite habitat in Florida" and the lack of reproduction in this area in recent years is of principal concern. Id. "A population viability analysis conducted in 2006 predicts very high extinction probabilities within the next 50 years (Martin 2007). Given the 2009 population estimate (i.e. 662 birds) the extinction risk may be even greater than the previous estimate (Cattau et al. 2009)." 3-26 to 3-27. It is clear that the Tribe's concerns about the snail kite have been proven correct. The FEIS also recognizes that the alarming decline of the vegetation on snail kite critical habitat in WCA-3A. "However, high water levels and extended hydroperiods have resulted in vegetation shifts within WCA-3A, degrading snail kite critical habitat." FEIS at 3-28. A multi-species approach that builds on the ERTP process and scientific information is essential. The ERTP was the first process to actually take a real multi-species approach to water management. Before this, as described above, it has typically been single-species management. The ERTP model for multi-species management must be a guiding principle of the CEPP.

• Restoration West of Shark River Slough Must Begin: As discussed earlier, "critical habitat" for the "Sparrow" was not designated by FWS for western Shark River Slough, because this area is currently being unnaturally dried out for subpopulation A of the "Sparrow" when under restoration it will be made much wetter. Declaring critical habitat would have effectively blocked the future restoration of the Everglades. Based largely on the written defense of the FWS's Final Rule by the Tribe, and concerns that the proposed designation would not only stop Everglades Restoration, but cause the continued destruction of Tribal Land, a Federal Judge ruled in 2011 that the FWS was correct not to designate this area as "critical habitat." In addition

 $^{^2}$ While some government documents have reported a 50% decline, the drop from approximately 3,400 snail kites in 2000 to 662 in 2009 actually represents a startling population decline of 81%. This is considerably more than the 50% stated.

to stopping Everglades restoration, the Judge unequivocally recognized the damage being done to Tribal land by "Sparrow" deviations:

"Under the grip of the law of unintended consequences, however, these corrective plans [i.e. deviations for the "Sparrow"] produced untoward results. Some argue that the greater retention of water for longer periods of time in WCA 3A, intended for Sparrow conservation, precipitated abnormally high water levels in WCA 3A. The higher water levels in WCA 3A are thought to have imposed adverse effects on other endangered species and on members of the Miccosukee Tribe of Indians of Florida ("Tribe")—who reside on more than 100,000 acres of WCA 3A land—by flooding culturally significant sites." Collyer Order at p. 13.

Settled: CERP is formulated to restore the Everglades and the CEPP process purports to begin the incremental restoration of the Central Everglades. The best science in the form of modeling and field studies show that restoration of the Everglades will result in the western portion of Shark River Slough being wetter. In contrast, the last 13 years of draconian water management actions allegedly for the "Sparrow" have made this area dryer and moved it away from restoration, while not helping the "Sparrow." The designation of "critical habitat" for this area would have required it to be dried out in perpetuity. The FWS has officially decided, and a Federal Judge upheld the FWS decision, that at some point the CSSS-A area will be restored and be wetter.

Unsettled: The only question that remains at this time is when does the Corps start allowing more flows into the area of western Shark River Slough so that restoration can in fact commence both for the areas north and south of Tamiami Trail? Thus, the Tribe, for the sake of its land and culture in particular, and Everglades restoration in general, implores the Corps to begin the restoration of western Shark River Slough via both the COP and CEPP.

• <u>Decisive Action Required</u>: From 2003 to 2007, the Miccosukee Tribe participated in the 4-year CSOP effort to attempt to achieve essentially the same outcomes that a new acronym, COP, is now supposed to achieve. At the end of the day, because of the unjustified non-support of a few, the consensus of many was rejected, and, to the detriment of the Tribe, nothing was implemented. This endless restoration planning without concrete results must not be repeated under either the COP or CEPP. The Colonel must make a final decision for the CEPP based on the best information available in spite of the misguided demands that some may have. No more "kicking the can down the road." Another dead end excursion is not an option for the dying Everglades. Bold, decisive action that results in actual restoration is essential for success.

Exhibit A MIT CEPP Scoping Comments January 13, 2012 1 of 5 0 9 September 2010

CESAJ-EN-W

MEMORANDUM FOR SAJ LEVEE SAFETY OFFICER (DUBA)

SUBJECT: EN-W Position Statement on WCA-3A Regulation Schedule Modifications

The USACE Jacksonville District Water Resources Engineering Branch (EN-W) has conducted a thorough review of the Central and South Florida Project (C&SF) Part 1 Supplement 33: General Design Memoranda (GDM) for Water Conservation Area 3 (June 1960) and the C&SF Fart 1 Supplement 49: Agricultural and Conservation Areas General and Detail Design Memorandum (August 1972). The 1960 GDM documents the WCA-3A design criteria and design assumptions, including the 9.5-10.5 feet NGVD regulation schedule for WCA-3A that managed water levels in WCA-3A prior to the start of the Experimental Program of Water Deliveries to Everglades National Park in 1983. Under the Experimental Program, the WCA-3A Regulation Schedule zones and operational rules were initially modified as part of the two-year test of the Rainfall Plan starting in 1985. The modified WCA-3A Regulation Schedule and Rainfall Plan remained in effect through the end of the Experimental Program in 2000. As an outcome of the deliberations during development of the Interim Structural and Operational Plan (ISOP 2000-2002) and the Interim Operational Plan (IOP 2002-present), the WCA-3A regulation schedule was further changed with the modification of Zone D and the establishment of Zone E1.

Based on the review of WCA-3A design documents and in conjunction with the hypothesis that the S-12s are not capable of achieving the original design discharge of 32,000 cfs, EN-W has concluded that a detailed engineering assessment of the effects of the potential S-12s discharge limitations and the WCA-3A Regulation Schedule modifications on the frequency and duration of high water events was warranted. The engineering assessment should include a rigorous evaluation of Standard Project Flood (SPF) conditions within WCA-3A as these conditions have not been evaluated by the USACE Jacksonville District since the original 1960 and 1972 design documents.

EN-W has proposed a two-phase analysis approach for WCA-3A high water events including: phase 1(ongoing) - identification and assessment of interim water management criteria for WCA-3A, including operational changes proposed as part of the ongoing

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Everglades Restoration Transition Plan (ERTP) NEPA efforts; and phase 2(future) - a WCA-3A flood routing hydraulic analysis, incorporating current USACE risk analysis requirements focusing on potential human health and safety concerns resulting from WCA-3A stages, with identification of proposed water management operating criteria and potential infrastructure modifications to address identified concerns. The phase 1 effort was limited to hydrology and hydraulics assessment, while the phase 2 analysis will include additional engineering analysis conducted by hydrology and hydraulics, geotechnical, and structural design disciplines.

Findings of Phase 1 - To determine the ERTP interim water management criteria for WCA-3A, EN-W has completed a preliminary assessment based on the methodology identified in the 1960 GDM design document. The original design headwater of the S-12 structures is 12.4 feet and the peak three station average for WCA-3A under the SPF event was 13.90 ft, NGVD (C&SF Part I, Supplement 33). Since the current configuration of WCA-3A inflow and outflow structures differs from the 1960 GDM design document, a simple volumetric spreadsheet was developed of WCA-3A to determine the peak Standard Project Flood (SPF) stage within WCA-3A and at the S-12 structures based on current system conditions. Multiple inflow and outflow variables were identified and quantified to refine the calculations of the peak flows and stages for the SPF evaluation. The latest USGS rating curve for each of the S-12 structures was utilized in the analysis to incorporate the most current stage discharge measurements to more accurately incorporate present flow conditions. The analysis illustrated that under the current system conditions, as represented in the spreadsheet, the peak SPF S-12 headwater stage was computed as 13.76 ft, NGVD and the peak SPF WCA-3A three gage average stage was computed as 15.20 ft, NGVD. The comparison of peak stages between the 1960 GDM WCA-3A design and the 2010 WCA-3A volumetric spreadsheet predictions indicate that the predicted SPF stage is higher than the WCA-3A design stages established in the original GDM and used to set the as-built crest elevation of L-29: 1.36 feet higher at the headwater of the S12 structures; 1.3 feet higher at the three station average for WCA-3A. Sensitivity analysis

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performed utilizing the 2010 WCA3A volumetric spreadsheet tool illustrated that the peak SPF stage is most sensitive to the amount of outflows being discharged from WCA-3A, with the primary outlet being the S-12's, and that the peak SPF stage is less sensitive to the configuration of the WCA-3A Regulation Schedule Zone A.

The schedule and scope for completion of the ongoing ERTP NEPA analysis precludes consideration of potential structural alternatives which would be proposed and evaluated in Phase 2. For immediate implementation through ERTP, prior to completion of the Phase 2, EN-W has concluded that the lowering of Zone A of the current WCA-3A Regulation Schedule to the 9.5-10.5 feet NGVD regulation schedule line from the 1960 GDM will provide an interim step to mitigate for the observed effects of the S-12s discharge limitations. Preliminary SFWMM modeling indicated that the following reductions in WCA-3A three station average high water frequency (as a percentage of the SFWMM 36-year period-of record, 1965-2000) may be reasonably expected from the lowering of Zone A: no significant change for stages above 11.75 feet NGVD (corresponds to S-12 headwater stage of 10.92 feet NGVD, based on historical regression); 1% reduction in stages exceeding 11.5 feet NGVD; 2-3% reduction in stages exceeding 11.0 feet NGVD; and 6-7% reduction in stages exceeding 10.5 feet NGVD.

The inclusion of the lowering of Zone A of the current WCA-3A Regulation Schedule within the proposed alternatives of the ongoing ERTP NEPA effort is a minimum requirement to demonstrate compatibility with the required interim water management criteria for WCA-3A. Additional water management operating criteria to further reduce the frequency and duration of high stages within WCA-3A should also be considered within the context of other ERTP Project considerations.

The ERTP Project's water management operating criteria should include the establishment of operational constraints at the S-12 structures based upon safety considerations for WCA-3A features and pertinent downstream areas, including the identification of infrastructure modifications to be implemented on a temporary

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basis to allow the reduction of risk to human health and safety. The stability analysis of the S-12's is predicated on a maximum design headwater stage of elevation 12.4 feet NGVD with the differential head across the structure limited to 5.5 feet; also, the as-built crest elevation of L-29 and crown elevation of Tamiami Trail (US-41) in the S-12A to S-12D reach has been established to protect against the risk of overtopping from an adjacent flood stage of elevation 12.4 feet NGVD. exceedance of these design conditions should be considered an immediate increase in risk to the human, health and safety afforded by the project features and would require decisive and prescribed measures to reduce the WCA-3A stage. In addition, application of the FDOT road base impact criteria to this reach of Tamiamı Trail (estimated crown elevation of 14.95 feet) would result in a not to exceed regulated water stage of approximately elevation 11.5 feet NGVD adjacent to the roadbed (corresponds to S-12 headwater stage of 12.45 feet NGVD, based on historical regression). While this water stage could be temporarily exceeded and does not present the immediate risk of the SPF stage violation, nevertheless, it should be considered adverse with operational measures applied to reduce its duration.

Outside of the ERTP project, additional NEPA assessment would be required to implement infrastructure modifications on a temporary basis to allow the reduction of risk to human health and safety, or to implement other permanent structural alternatives which may result from the future phase 2 analyses. Considering the limitations on discharge through the S-12 structures, downstream conveyance improvements at the S-12 structures (potentially including removal of portions of the old Tamiami Trail) or additional outlets are required to mitigate for increased SPF stages within WCA-3A. The most effective additional measure investigated under phase 1 to alleviate the problem involves further degradation of the L-28 to increase outflows, although the potential for downstream effects, including impacts to the Tamiami Trail roadway and hydroperiod/nesting condition effects on Cape Sable Seaside Sparrow Sub-population A, would require further investigations. Implementation of the Modified Water Deliveries Conveyance and

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Seepage Control Features and Tamiami Trail Improvements would also provide additional outlet capacity.

If you have any questions or require additional information, please contact me directly at extension 2105.

SEAN L. SMITH, P.E.

Chief, Water Kesources Engineering Branch



OFFICE OF THE MAYOR MIAMI-DADE COUNTY, FLORIDA

January 18, 2012

Dr. Gina Paduano Ralph, Ph.D
Department of the Army, Jacksonville District Corps of Engineers
Planning Division, Environmental Branch
P.O. Box 4970
Jacksonville, FL 32232

RE: Scoping comments on the Central Everglades Planning Project (CEPP)

Dear Dr. Ralph:

Miami-Dade County has supported the Comprehensive Everglades Restoration Plan (CERP) and foundation projects, including initial components of the Biscayne Bay Coastal Wetlands (BBCW) and C-111 Spreader (West) that are on the way to completion. The County recognizes that improvements in the heart of the central Everglades are necessary to achieve ecological restoration benefits in the Water Conservation Areas (WCA), Everglades National Park (ENP), We also expect that improved quantity and quality of freshwater flow will not only benefit hydrology and the marsh ecosystem, but will also enhance potential for water deliveries for human water supply and to the southern estuaries. Increased stages in eastern portions of the WCA and ENP and in certain canals could affect flood protection level of service to the east, and seepage management must be included simultaneously with flow enhancement. However, seepage management components must also maintain both quality and quantity of water reaching wellfields, particularly during dry or drought periods. The "fasttracked" CEPP represents an opportunity to link together water quality, storage, conveyance and seepage management components, to more holistically reverse ongoing decline in the Everglades system and demonstrate benefits, as compared to the standard compartmentalized and cumbersome planning process.

Although the CEPP promises a more timely and efficient procedure, it is important that the scope of plan formulation in CEPP be comprehensive, both in geographic scale and in addressing the three principal interests of Miami-Dade County in an integrated fashion: local and system wide ecological benefits, water supply, and seepage management. As a county uniquely situated among two National Parks, a National Marine Sanctuary, aquatic preserves, one of the world's most transmissive aquifers, and globally imperiled natural systems, Miami-Dade has a demonstrated commitment to environmental restoration, water quality, wellfield and flood protection, conservation land acquisition, and sustainability. The CEPP formulation should evaluate unique characteristics on a local scale, and not relegate them to a lesser standing at the terminus of the Everglades system. More specifically, the scope of CEPP formulation should address:

Dr. Gina Paduano Ralph, Ph.D. Page 2

- Water quality, ecological and hydrological benefits, including effects on plant community, habitat structure, and listed species and other wildlife in Florida and Biscayne Bays, as well as within WCA3a and b, and ENP.
- Water quality and quantity with respect to Miami-Dade public wellfields, including surfacegroundwater interactions and saltwater intrusion, particularly during dry season or in prolonged drought, and in view of sea level rise projections.
- Flood protection under various canal stages and high water conditions, including operational criteria and modeling of distribution of peak stages and flows at critical gauges (such as S-357, S-338, S-196, S-194, S-380, C6-Palm, S-26 and T5) and at reference residential and agriculture lands.

County staff understands that in the traditional USACE process, many of the issues of concern to Miami-Dade and other stakeholders are viewed as "constraints" rather than project objectives or targets for formulating alternatives. Early public presentations about CEPP by USACE and SFWMD staff suggest that modeling tools for plan formulation will not address flood protection, water quality, wellfields, or Florida Bay and Biscayne Bay in detail or with defined "performance measures". This approach represents a serious concern to Miami-Dade. However, we believe that unnecessary delays and costs, caused by repeated modeling efforts, revisions of alternatives, or challenges can be avoided by including all of the above issues from the outset in developing and evaluating a suite of restoration alternatives. This can be addressed in part through appropriate inclusion of sub-regional or local hydrologic dynamic models, particularly in areas where seepage management features are contemplated, and through extension of evaluation transects or targets to coastal transition zones and lands to the east of the L-30/31 boundary. In view of the potential benefits of increased freshwater flows as a climate-change adaptation strategy to address saltwater intrusion into both wetlands and groundwater wellfields, evaluation models should also be capable of addressing consensus sea level rise projections.

It is also strongly recommended that CEPP build upon modeling tools, as wells as evaluation factors, including surrogates for water quality and hydrologic targets for tree islands and protected species, that have been developed or extensively reviewed by earlier Project Development Teams working on DECOMP, ERTP, C-111, and BBCW. Information derived from these types of analyses, even if not labeled as "performance measures", should be used to evaluate, refine and recommend a preferred alternative suite of restoration elements and operations, including seepage management features. Miami-Dade County also recommends that the scope of benefits and cost analyses in CEPP include non-traditional approaches, such as valuation of ecosystem "services" that may derive from restoration, such as savings on costs of flood protection or drinking water treatment, and economic benefits of recreational or aesthetic values of natural habitats, fish and wildlife. Miami-Dade conducts surface and groundwater monitoring programs in Miami-Dade County, has extensive experience in stormwater management master planning, and has a robust collaboration with USGS focusing on development and application of ground and surface water modeling for wellfield protection. Miami-Dade may have water quality data or hydrologic modeling information that would be of assistance in the development of your EIS.

Dr. Gina Paduano Ralph, Ph.D Page 3

Lastly, Miami-Dade recognizes the importance of engaging stakeholders in the CEPP and that the fast-track presents challenges. However, we request that one or more CEPP public meetings or workshops directed at local stakeholders and their concerns be held in Miami-Dade, and recommend that similar regional meetings be held in other local jurisdictions south of Lake Okeechobee. Our staff is willing to assist you in locating an appropriate venue.

Technical staff in the Miami-Dade Permitting, Environment, and Regulatory Affairs (PERA) department and the Water and Sewer Department (WASD) can provide additional detailed input on modeling and hydrologic or ecological targets. Please contact Mr. Lee Hefty, Assistant Director of PERA Environmental Services at 305-372-6754 or via email at heftyn@miamidade.gov if you need additional information.

OH.

Sincere

Deputy Mayor

c: Stuart J. Appelbaum, Chief, Planning and Policy Division Charles Danger, PE, Interim Director, PERA John Renfrow, PE, Director WASD Lee N. Hefty, Assistant Director, PERA

Ralph, Gina P SAJ

From: Lou Gross [gross@nimbios.org] Friday, January 20, 2012 11:18 AM Sent:

To: CEPPComments, SAJ

Cc:

Comments on CEPP EIS from The Institute for Environmental Modeling Subject:

To: Dr. Gina Padua Ralph

U.S. Army Corps of Engineers

Planning Division P.O. Box 4970

Jacksonville, FL 32232-0019 CEPPComments@usace.army.mil

From: Dr. Louis J. Gross

James R. Cox and Alvin and Sally Beaman Distinguished Professor of Ecology and Evolutionary Biology and Mathematics Director, National Institute for Mathematical and Biological Synthesis (NIMBioS.org)

Director, The Institute for Environmental Modeling

University of Tennessee Knoxville, TN 37996 gross@nimbios.org

I am responding to the request for comments to the CEPP Environmental Impact Statement (EIS) in my role as the Director of the Across Trophic Level Systems Simulation (ATLSS) project here at the University of Tennessee. ATLSS, supported by the USGS and the National Science Foundation, has been developed and utilized since 1995 to synthesize the best available scientific knowledge and utilize this in conjunction with hydologic models to assess the relative impacts of alternative restoration plans on key biotic components of the South Florida freshwater systems.

Adaptive management has been the operative paradigm for incorporating science into CERP decision making for Everglades restoration. The roles of monitoring, hydrologic and biotic modeling, and the generation/evaluation of alternative hydrologic scenarios were well defined and vetted under this process. If adaptive management has been replaced by another paradigm, a clear and straight-forward description of that process is needed.

The federal register notice and online Central Everglades Planning Project (CEPP) documents do not provide specific information about how best available science will be incorporated into decision making or into the hydrologic scenario generation/evaluation process. The Corp's Planning Process Transformation Pilot Program, upon which the CEPP EIS is based, appears to be an experimental and untested paradigm. We question the choice of the Everglades - a complex and highly degraded ecosystem - as a testing ground for this planning paradigm, given the potentially non-reversible nature of unsound decisions that could result from this process.

The South Florida Water Management Model (SFWMM) was used in the past to provide hydrologic modeling for alternative CERP scenarios. SFWMM scenarios were accompanied by calibration data generated using historical rainfall and transpiration data and historical water management schedules and structures. These data allowed output from the SFWMM to be compared to historical gauging station data and also provided an approximation of historical water depths over all spatial cells of the model area. Calibration/verification hydrologic data could then be used - in conjunction with monitoring data for species numbers and distribution - to

calibrate and verify the biotic models used to evaluate relative impacts of alternative scenarios on Everglades biota.

CEPP scenario hydrology will apparently be generated by the South Florida Regional Simulation Model (RSM). CEPP documents provide insufficient detail about RSM calibration data, scenario generation, incorporation of biotic models in the evaluation process, and continued monitoring of key ecosystem components to provide assurances that science will continue to have an appropriate role in decision-making.

The documents do not discuss a mechanism for how biotic assessments are to be carried out, how alternative planning is to be developed based upon these assessments, nor how scientific input from the expansive collection of biotic system models developed as part of CERP are to be supported and incorporated in the EIS.

We are particularly concerned that monitoring has been discontinued or reduced for key components of the Everglades biota (including white-tailed deer and the Florida panther in Everglades National Park) despite the fact that there is still insufficient understanding of these species responses to accurately project the impacts of hydrologic changes on their populations. For those species still being monitored, no central data repository has been established, although such a repository was a major element in CERP planning to provide for continued incorporation of best available science into models.

Shortening the time period for management decision-making for CEPP relative to the CERP process makes the transparent incorporation of best available science and continued monitoring to assess biotic impacts all the more urgent.

Louis J. Gross

James R. Cox and Alvin and Sally Beaman Distinguished Professor of Ecology and Evolutionary Biology

and Mathematics

Director, National Institute for Mathematical and Biological Synthesis (NIMBioS.org)

Director, The Institute for Environmental Modeling University of Tennessee - Knoxville Past-President, UTK Faculty Senate Past-President, Society for Mathematical Biology (www.smb.org) gross@nimbios.org http://www.tiem.utk.edu/~gross/ http://NIMBioS.org/



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January 20, 2012

Dr. Gina Padua Ralph U.S. Army Corps of Engineers Planning Division P.O. Box 4970 Jacksonville, FL 32232-0019

RE: Central Everglades Planning Project

Dear Dr. Padua Ralph:

Please accept this letter as formal comments regarding the Central Everglades Planning Project (CEPP) on behalf of Lee County Division of Natural Resources.

Lee County wishes to express its full support of the CEPP. Lee County is an 804-square-mile metropolitan area of approximately 600,000 residents located along the Gulf Coast of Southwest Florida. Known for its 50 miles of white sand beaches on the Gulf of Mexico, Lee County receives approximately 5 million visitors a year that generates approximately \$3 billion in economic impacts. Lee County tourism employs I out of every 5 people within the County. To be sure, protection of our precious natural and water resources is critical to Lee County and its residents, as well as to our tourism industry. While the economic impact of the tourism industry can be measured in dollars and cents, we also benefit from the quality of life to which a healthy ecosystem contributes.

Central to a healthy ecosystem in Lee County is the protection and restoration of the Caloosahatchee River and Estuary, and the beneficial management of Lake Okeechobee. Thus, the stated goals and objectives of the Central Everglades Planning Project are strongly supported and have long been pursued by Lee County. Improving the quantity, quality, timing and distribution of water in the Northern Estuaries and throughout the Everglades will lead to a more naturally functioning system and restore natural habitat within the Caloosahatchee River and Estuary. Specifically, the reduction of high volume discharges from Lake Okeechobee to improve water quality of oyster and submerged aquatic vegetation in the Caloosahatchee River and Estuary is an objective long sought by Lee County.

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Dr. Gina Padua Ralph U.S. Army Corps of Engineers January 20, 2012 Page 2

Lee County applauds the efforts of the Army Corps of Engineers and the South Florida Water Management District for taking on such an ambitious project – both in scope and in time. The CEPP is a tremendous opportunity to take a large step forward in the progress of protecting and restoring the Caloosahatchee River and Estuary.

Lee County appreciates the opportunity to submit comments on the CEPP.

Sincerely.

Jed R Schneck

JRS/bt

Roland Ottolini, P.E., Director – Lee County
 Kurt Harclerode, Operations Manager – Lee County
 John J. Fumero, Esquire – Sundstrom, Friedman & Fumero, LLP

Ralph, Gina P SAJ

From: carl woehlcke

Sent: Friday, January 20, 2012 3:31 PM

To: CEPPComments, SAJ

Subject: Options to Consider in the Project PIR

Here are some options that should be considered within the CEPP PIR to partially substitute for or complement other proposed options 1. In-ground Storage Reservoirs in lieu of above ground reservoirs 2. Deep In-ground cells within any reservoirs (above or below ground) for chemical water treatment (perhaps with alum) and sequestration of removed Phosphorus in deepest parts of the cell 3. ASR wells to store water when there is excess water in the EAA and reservoirs and/or Lake Okeechobee are at or near capacity (having good connections to use Lake Okeechobee water would be important).

- 4. Deep (boulder zone) disposal wells to remove water that can not be stored and treated (e.g. brackish water in new in-ground reservoir cells and excess water imported from Lake Okeechobee during periods of regulatory discharge) (having good connections to use Lake Okeechobee water would be important).
- 5. Facilities to move and discharge water along the northern and western boundaries of Water Conservation Area 3.

The first 4 options are less land intensive than the options of above-ground reservoirs and STAs. They may well be cost-competitive. They are also less likely to engender conflicts between their planned uses and environmental values. The fifth option is necessary to distribute water to rehydrate WCA 3 and establish proper flows to achieve restoration.

Louis Carl Woehlcke, Ph.D.

GLADES SUGAR HOUSE

Tooperative of Florida Sugar Cane Growers: POST OFFICE BOX 666

33430-0666

January 19, 2012

U. S. Army Corps of Engineers Dr. Gina Paduano Ralph

Email: CEPPcomments@usace.army.mil

Dear Dr. Ralph:

As sugar cane growers and refiners located in the Everglades Agricultural Area, we have a continuing and vital interest in the Comprehensive Everglades Restoration Plan and in the CEPP. Our interest is from two perspectives: we are major landowners and farmers in the region, and we depend on the operations of the Central & Southern Florida Flood Control project for water supply and flood protection. We worked hard supporting the Congressional approval of CERP as part of the Water Resources Development Act of 2000. We fully endorse WRDA 2000's statement of CERP's purpose: "The overarching objective of the Plan is the restoration, preservation, and protection of the South Florida Ecosystem while providing for other water-related needs of the region, including water supply and flood protection." The stated purpose of CERP in the Federal register's scoping document is the restoration and protection of the remaining Everglades while meeting the water related needs of the region. It goes on to describe the authorized project purposes of the C&SF project.

We endorse the CEPP goal of combining several conditionally authorized project components to develop an increment of CERP that will contribute to enhancing sheetflow through the Water Conservation Areas. CEPP recognizes the system wide nature of CERP and hence the need to address quantity, quality, timing, and distribution in an integrated manner through the construction and operation of multiple project components.

We support streamlining the planning process though improved vertical integration of decision making within the Corps and this initiative's focus on balancing the level of detail in the planning process with the level of uncertainty appropriate for restoration planning. Nevertheless this new nationwide pilot program to modify the Corps' planning process must include the overarching commitment to meet all requirements of law and regulation albeit in an accelerated fashion.

We have several concerns with the scope of this project as we understand it. First, from the scoping letter it is not apparent what federal action is being proposed, therefore it is difficult to know what to comment on. We have been attending the public workshops hosted by the South Florida Ecosystem Restoration Task Force staff and Water Resource Advisory Commission (WRAC) briefing in an effort to learn more about the Central Everglades Planning initiative.

While we support your efforts to streamline the process to produce a Project Implementation Report (PIR), the desire for expeditious completion of a PIR must not outweigh the necessity for careful, comprehensive evaluation of alternatives, uninhibited by arbitrary or unrealistic constraints and assumptions.

We have the following specific comments on the planning assumptions and constraints:

- ➤ The planning scope must recognize that the present Lake Okeechobee Regulation Schedule is an interim one necessitated by concerns with levee integrity. A continuing program of levee improvements is underway that will allow the return to the previous storage capacity in the Lake. Recent statements by Col. Pantano indicate that the most important Dike repairs will be completed during the same time frame described for the CEPP. Additional water storage in the Lake should therefore be evaluated as part of the project's alternative analyses.
- > Further, to be in accordance with the basic assurances afforded to stakeholders in WRDA 2000, the CERP without-project condition, and thus

the CEPP without-project condition should be comparable. While CERP used the Run 25 Lake schedule, the WSE Schedule was approved concurrent with CERP and should be used as the without-project condition for the CEPP.

- Assumptions concerning water quality must be based in reality. To assume Lake Okeechobee water meets the TMDL for the lake, without any project features on the horizon to accomplish that, seems foolhardy. The TMDL is designed to meet a much reduced load target for phosphorus flowing into Lake Okeechobee, not an in-lake concentration. The scientific discussion by government staff when the TMDL was developed made it clear that even if by some magic the load reduction limit could be achieved it would still take decades, if not centuries, for the in-lake phosphorus concentrations to reach 40 ppb. There would seem to be no need to accelerate the federal planning for this project if it is based on an assumption that cannot possibly be met for several decades, if ever.
- Assuming that the without-project condition Stormwater Treatment Areas are meeting some un-defined target that's tied up in two federal court cases, and the new water made available by CEPP will meet that same unknown target is inappropriate. Without-project conditions should be predicated on forecasts of the most likely conditions to prevail over the life of the project. Water quality improvement must be associated with the specific facility investments and regulatory actions necessary to achieve them. This is essential to the planning process as these activities may impact the availability of land for water storage and other purposes. The CEPP should integrate water quality and water quantity planning to ensure the most cost-effective use of available land resources and achieve the best balance among the four aspects of water flow essential to restoration—quantity, quality, timing and distribution. In evaluating the cost-effectiveness of various alternatives tradeoffs will be necessary, and the federal agencies must be prepared to make them.
- In considering increased storage, the examination of alternatives must be comprehensive. The Aquifer Storage and Recovery Projects (ASR) as envisioned by CERP have a compelling advantage over surface storage in

avoiding loss of water due to evapotranspiration as well as having minimal land requirements. The CERP plan would not have made it over the goal line without the inclusion of an ASR component. The pilot projects are underway and the Lake Okeechobee region's wells show promising results. This alternative for storage should be evaluated as part of the plan formulation analyses.

- ➤ Another alternative for providing increased water storage that must be addressed is increased use of Lake Okeechobee for storage beyond that provided historically. This is specifically addressed in the report of the NRC Committee on Everglades Restoration, (Re-Engineering Water Storage in the Everglades: Risks and Opportunities, NRC, 2005) and warrants further analysis in light of the increased storage capability that will be afforded by completion of the Hoover Dike improvements.
- There have been several processes over the last five years that have clouded the issue of what is considered part of CERP and what is not. To be successful within the time constraints you have chosen it is essential that the scope of the CEPP track very closely with the conceptual plans approved by Congress. With respect to the EAA, the actual footprint of the project in the final CERP document matches well with the land now owned by the District, and limiting the planning scope to that property meets the stated intent for the CEPP. Going beyond that footprint would trigger the need for a CERP Update as specified in the Programmatic Regulations and should not be part of this plan.
- The same approach must be taken with water flows from the Lake to the Everglades. Although the continued refinement of the computer models used for the CERP was expected, the scale of the Everglades flow values now being discussed in some circles is well beyond anything contemplated in WRDA 2000 and would clearly require a formal CERP update. The Central Everglades Plan must stay close to the flow volumes expected with the plan approval in WRDA 2000. This is especially important if you want to stay within the shortened timeframe for this analysis.

- ➤ Certain constraints were imposed on the plans to be recommended under CERP by the "Savings Clause" in WRDA 2000. The first provision protects water supplies for the various uses affected by CERP.
 - "(5) SAVINGS CLAUSE.—
 - (A) NO ELIMINATION OR TRANSFER.—Until a new source of water supply of comparable quantity and quality as that available on the date of enactment of this Act is available to replace the water to be lost as a result of implementation of the Plan, the Secretary and the non-Federal sponsor shall not eliminate or transfer existing legal sources of water, including those for—
 - (i) an agricultural or urban water supply;
 - (ii) allocation or entitlement to the Seminole Indian Tribe of Florida under section 7 of the Seminole Indian Land Claims Settlement Act of 1987 (25 U.S.C. 1772e);
 - (iii) the Miccosukee Tribe of Indians of Florida;
 - (iv) water supply for Everglades National Park; or
 - (v) water supply for fish and wildlife."

While we have emphasized above that planning is to be based on the most likely without-project conditions in accordance with NEPA and Corps regulations, we remind the Corps that the savings clause imposes a constraint on plans based on conditions prevailing at the time of the enactment of WRDA 2000 and is an accounting calculation separate from the projections based on the present prevailing situation and the future most-likely without project condition.

With a stated purpose of enhancing sheet flow in the Everglades, and providing additional water from Lake Okeechobee for that purpose, the CEPP must include options that evaluate returning sheet flow to the Holey Land and Rotenberger properties adjacent to WCA-3A. To continue to isolate those areas will require additional engineering features to flow water around, rather than through, those areas, and severely limit the restoration of Everglades sheet flow over a large portion of the historic Everglades.

We applaud the Corps for its attempt to shift its emphasis in Everglades restoration from planning to construction of agreed upon and approved

project features. We continue to support the blueprint put forth with the Congressional and state legislative adoption of CERP in 2000.

Sincerely,

Barbara J. Miedema

Vice President, Public Affairs & Communications

Barzas Muchu

BJM:swd

cc: Mr. Joe Collins, SFWMD, Chair

Mr. Kevin Powers, SFWMD, Vice Chair

Ms. Sandy Batchelor, SFWMD Board Member

Mr. Daniel DeLisi, SFWMD Board Member

Mr. James J. Moran, SFWMD Board Member

Mr. Daniel O'Keefe, SFWMD Board Member

Mr. Juan M. Portuondo, SFWMD Board Member

Mr. Timothy Sargent, SFWMD Board Member

Mr. Glenn J. Waldman, SFWMD Board Member

Mr. Matt Morrison, SFWMD

Mr. Tom Teets, SFWMD

Ms. Kimberly Taplin, USACE

Mr. Steven Kopecky, USACE

Ralph, Gina P SAJ

W. E. Ted Guy From:

Tuesday, December 20, 2011 5:35 PM Sent:

To: CEPPComments, SAJ 'SFWMD'

Cc:

Subject: Comments on CEPP workshops

Col. Pantano & Lt. Col. Kinard:

We welcome the Corps and other agencies' push to "move water South" at long last, having studied the issues since the early 1980s. I note that SFRestore's "New" science "discovery" repeats what the Corps has known at least since its independent scientist panel published the Reconnaissance Report in 1994.

CERP Table 5-1 "Goals and Objectives" applies just as much today as it did when adopted in 1999 and should be followed. That seems to be the major flaw in the current CEPP: not restoring the natural flow instead of relying on new engineered "plumbing" projects. Without restoring the pond apple forest and the sawgrass sheet flow through the "River of Grass", we'll never achieve cleaning enough nutrients out of the water as it moves South to make it suitable for re-charging the Everglades.

I am an environmentalist board member of the Rivers Coalition and co-founder of the ROGER coalition of coalitions. (River of Grass Everglades/Estuary Restoration) Together these coalitions represent about 500,000 citizens of South Florida. Thanks for listening and thanks for involving stakeholders and the public in the CEPP!

W.E. "Ted" Guy, Jr.





Florida Department of Environmental Protection

Marjory Stoneman Douglas Building 3900 Commonwealth Boulevard Tallahassee, Florida 32399-3000 Rick Scott Governor

Jennifer Carroll Lt. Governor

Herschel T. Vinyard Jr. Secretary

January 23, 2012

Dr. Gina Paduano Ralph Jacksonville District, Planning Division U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

RE: Department of the Army, Jacksonville District Corps of Engineers -

Scoping Notice - Central Everglades Planning Project (CEPP), Integrate and Accelerate Implementation of Comprehensive Everglades Restoration

Plan Projects in South Florida.

SAI # FL201112066056

Dear Dr. Ralph:

The Florida State Clearinghouse has coordinated a review of the referenced scoping notice under the following authorities: Presidential Executive Order 12372; Section 403.061(42), Florida Statutes; the Coastal Zone Management Act, 16 U.S.C. §§ 1451-1464, as amended; and the National Environmental Policy Act, 42 U.S.C. §§ 4321-4347, as amended.

The Florida Department of Environmental Protection (DEP) supports development of the CEPP and believes that it will compliment the State of Florida's efforts in improving water quality and restoring the Everglades. DEP staff recommends that the following issues and concerns be addressed during CEPP plan formulation:

- Because the new U.S. Army Corps of Engineers (USACE) nationwide Planning
 Transformation Pilot Program has introduced several enhanced procedures, such as
 identifying risks early in the process to aid in addressing uncertainties in plan
 formulation and improving vertical communication and decision making within the
 USACE, DEP recommends that the USACE maintain and provide a list of identified
 risks to the commenting agencies for their use in early issue resolution.
- The DEP believes that addressing water quality is one of the most critical components
 of this planning effort and is committed to addressing water quality in existing flows
 to the Everglades Protection Area consistent with the requirements of the state's
 phosphorus criterion. Staff requests that the USACE include, as part of the future
 without-project condition, the assumption that existing volumes of water will be

Dr. Gina Paduano Ralph January 23, 2012 Page 2 of 5

treated to meet the objectives of the phosphorus criterion prior to discharge to the Everglades Protection Area.

- In addition to the water quantity and quality assumptions for the future without-project condition identified above, the DEP requests that the USACE use the existing quality of water flowing from Lake Okeechobee, and the delta between existing flows and future with-project flows, through the central flow path as a basis for planning additional treatment, storage or other features identified as part of the experiment planning process. As with the treatment of existing flows, the USACE should assume that any new water flowing to the Everglades Protection Area will be required to be treated to levels consistent with the phosphorus criterion.
- Please work closely with the local sponsor to establish expectations regarding cost sharing on all new components, or modifications to existing components, that ultimately result from the expedited planning process. In particular, cost sharing expectations for water quality projects need to be identified and resolved early on in the planning process.
- The State of Florida has spent a significant amount of the Comprehensive Everglades Restoration Plan (CERP). The DEP requests that the USACE focus its planning efforts for storage and treatment projects on lands already owned by the South Florida Water Management District (SFWMD).
- The CEPP assumes in the future without-project condition that the foundation projects, first generation CERP projects and second generation CERP projects are in place. However, the foundation projects have not been completed and the operation plans have not been developed, making project outcomes more difficult to predict. As part of the scoping phase of the CEPP project, the Integrated Delivery Schedule should be reevaluated to account for these revised project timeframes. The implementation schedule for second generation CERP projects that may influence the CEPP should be carefully considered as part of the expedited planning process.
- It is currently unclear whether the Modified Water Deliveries (MWD) project will be
 completed as it was originally envisioned. Any future with-project scenario that
 includes features originally identified under the MWD project should be identified as
 being the sole responsibility of the federal government, with the exception of costshare commitments between the SFWMD and USACE for operations.

For further specific comments and recommendations, please refer to the enclosed DEP memorandum and contact Ms. Inger Hansen at (561) 682-2663.

As the local sponsor, the SFWMD has played an integral role in developing and implementing the CERP. As such, SFWMD staff has identified three issues of significance

Dr. Gina Paduano Ralph January 23, 2012 Page 3 of 5

that must be addressed to enable the SFWMD to move forward with local sponsorship of the CEPP and meet the remaining milestones of the expedited planning process:

- 1. Water quality requirements, assumptions and cost-share. The SFWMD can only support assumptions for the CEPP future without-project condition that the SFWMD will treat current annual flows of approximately 850,000 acre-feet of water to a flow-weighted mean for total phosphorus of 13 parts per billion (ppb). All facilities needed to treat existing inflows, as proposed by the State of Florida in response to the U.S. Environmental Protection Agency's Amended Determination, would be non-federally funded. In its assumptions for the future with-project condition, the USACE should use the existing quality of water flowing from Lake Okeechobee through the central flow path as a basis for planning additional treatment facilities. Consistent with the treatment of existing flows, the USACE should also assume that new water flowing to the Everglades Protection Area will be treated to 13 ppb total phosphorus.
- Use of existing SFWMD-owned lands in project formulation. SFWMD advises that the 243,000 acres currently acquired should be utilized to implement the initial increment of central Everglades restoration in an expeditious, cost-effective and commonsense manner (see attached map).
- 3. Inclusion in the CEPP future with-project condition of specific project features identified in the June 1992 General Design Memorandum and Environmental Impact Statement for Modified Water Deliveries to Everglades National Park. To date, features that were to be constructed as part of the MWD project three gated culvert structures, three gated concrete headwall structures and degrading of the existing Levee 67 Extension and filling the borrow canal have not been constructed or are only partially constructed. The SFWMD can support inclusion of these features in the future with-project condition only if the USACE indentifies in the CEPP documentation that construction and operation of these features will be cost-shared in accordance with the terms and conditions of the Project Cooperation Agreement between the SFWMD and USACE for this foundation project.

Please see the enclosed SFWMD letter and contact Mr. Tom Teets, Federal Policy Chief, at (561) 682-6993 for further details and assistance.

The Florida Department of Agriculture and Consumer Services (FDACS) fully supports the USACE's intent to conduct an integrated study of the subject CERP projects and the objective of restoring flows to the south and reducing harmful discharges to the east and west coast estuaries. There are, however, significant issues that need to be addressed if this effort is to be successful:

1. The process for developing the CEPP must clearly recognize the interim status of the current Lake Okeechobee Regulation Schedule; it would be inappropriate to assume the LORS08 schedule for either the with- or without-project scenarios. Planned repairs

Dr. Gina Paduano Ralph January 23, 2012 Page 4 of 5

to the Herbert Hoover Dike should increase storage in the Lake, and the planning process should consider the availability of that additional storage in its analysis of project alternatives. Any additional demands on the Lake must be carefully evaluated in light of existing demands of both water users and the environment, as well as future demands from other CERP components that rely upon Lake water.

2. The planning process must realistically consider water quality concerns. The CERP is built upon assumptions regarding water quality that FDACS staff has difficulty accepting, since water quality constraints can prevent the movement of additional water through the central part of the system. The in-lake phosphorus concentration for Lake Okeechobee is one such constraint, even if it is assumed that the total maximum daily load for phosphorus will be met in the foreseeable future. Issues related to the Stormwater Treatment Areas (STAs) must also be addressed. Without resolving the legal and technical uncertainties characterizing the STAs as currently operated, the movement of additional water made available by the CEPP southward cannot be presumed.

For additional information, please see the enclosed FDACS letter and contact Mr. Ray Scott at (850) 410-6714 or Ms. Rebecca Elliott at (561) 682-6040.

Based on the information contained in the scoping notice and the enclosed state agency comments, at this stage, the state has no objections to the proposed federal action. To ensure the project's consistency with the Florida Coastal Management Program (FCMP), the concerns identified by our reviewing agencies must be addressed prior to project implementation. The state's continued concurrence will be based on the activity's compliance with FCMP authorities, including federal and state monitoring of the activity to ensure its continued conformance, and the adequate resolution of issues identified during this and subsequent reviews.

Thank you for the opportunity to review the public notice. Should you have any questions regarding this letter, please contact Ms. Lauren P. Milligan at (850) 245-2170.

Yours sincerely,

Sally B. Mann, Director

Office of Intergovernmental Programs

Jacky B. Mann

SBM/lm Enclosures Dr. Gina Paduano Ralph January 23, 2012 Page 5 of 5

cc: Greg Knecht, DEP, OEP Ernie Marks, DEP, OEP PCRS Dianne Hughes, DEP, Southeast District Deborah Oblaczynski, SFWMD Ray Scott, FDACS Forrest Watson, FDACS



Department of Environmental Protection

"More Protection, Less Process"



Categories

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Project Inform	ation
Project:	FL201112066056
Comments Due:	01/11/2012
Letter Due:	01/20/2012
Description:	DEPARTMENT OF THE ARMY, JACKSONVILLE DISTRICT CORPS OF ENGINEERS - SCOPING NOTICE - CENTRAL EVERGLADES PLANNING POLICE - CENTRAL EVERGLADES PLANNING POLICE - COMPREHENSIVE EVERGLADES RESTORATION PLAN PROJECTS IN SOUTH FLORIDA.
Keywords:	ACOE - CENTRAL EVERGLADES PLANNING PROJECT FOR CERP PROJECTS IN SOUTH FLORIDA
CFDA #;	12.104

Agency Comments:

AGRICULTURE - FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

The FDACS indicates full support for the USACE's intent to conduct an integrated study of the subject CERP projects and the objective of restoring flows to the south and reducing harmful discharges to the east and west coast estuaries. There are, however, significant issues that need to be addressed if this effort is to be successful. First process for developing the CEPP must clearly recognize the interim status of the current Lake Okeechobee Regulation Schedule; it would be inappropriate to assume the LORS08 schedule for either the With- or Without-Project scenarios. Planned repairs to the Herbert Hoover Dike should increase storage in the Lake, and the planning process should consider the availability of that additional storage in its analysis of project alternatives. Any additional demands on the Lake must be carefully evaluated in light of existing demands of both water users and the environment, as well as future demands from other CERP components (e.g., the C-43 Reservoir) that rely upon Lake water. Second, the planning process must reliability consider water quality concerns. The CERP is built upon assumptions regarding water quality that FDACS staff has difficulty accepting, because water quality constraints can prevent the movement of additional water through the central part of the system. The in-lake phosphorus concentration for Lake Okeechobee is one such constraint, even if it is assumed that the total maximum daily load (TMDL) for phosphorus will be met in the foreseeable future. Issues related to the Stormwater Treatment Areas (STAs) must also be addressed. Without resolving the legal and technical uncertainties characterizing the STAs as currently operated, the movement of additional water made available by the CEPP southward cannot be presumed.

FISH and WILDLIFE COMMISSION - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

No comment from the FWC Division of Habitat and Species Conservation.

TRANSPORTATION - FLORIDA DEPARTMENT OF TRANSPORTATION

Released Without Comment

ENVIRONMENTAL PROTECTION - FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

The DEP supports development of the CEPP and believes that it will compliment the State of Florida's efforts in improving water quality and restoring the Everglades. DEP staff recommends that the following issues and concerns be addressed during CEPP plan formulation: - Because the new USACE nationwide Planning Transformation Pilot Program has introduced several enhanced procedures, such as identifying risks early in the process to aid in addressing uncertainties in plan formulation and improving vertical communication and decision making within the USACE, DEP recommends that the USACE maintain and provide a list of identified risks to the commenting agencies for their use in early issue resolution. - The DEP believes that addressing water quality is one of the most critical components of this planning effort and is committed to addressing water quality in existing flows to the Everglades Protection Area consistent with the requirements of the state's phosphorus criterion. Staff requests that the USACE include, as part of the future without-project condition, the assumption that existing volumes of water will be treated to meet the objectives of the phosphorus criterion prior to discharge to the Everglades Protection Area. - In addition to the water quantity and quality assumptions for the future without-project condition identified above, the DEP requests that the USACE use the existing quality of water flowing from Lake Okeechobee, and the delta between existing flows and future with-project flows, through the central flow path as a basis for planning additional treatment, storage or other features identified as part of the expedited planning process. As with the treatment of existing flows, the USACE should assume that any new water flowing to the Everglades Protection Area will be required to be treated to levels consistent with the phosphorus criterion. For further specific comments and recommendations, please refer to the enclosed DEP memorandum.

SOUTH FLORIDA WMD - SOUTH FLORIDA WATER MANAGEMENT DISTRICT

The SFWMD transmitted a letter to the Florida State Clearinghouse on January 18, 2012. The letter provides the District's comments on the Department of the Army, Jacksonville District Corps of Engineers Scoping Notice for the Central Everglades Planning Project. For further information on the above comments, please contact Mr. Tom Teets, Federal Policy Chief, at (561) 682-6993 or tteets@sfwmd.gov. If you have any comments or questions regarding SFWMD's review, please contact Ms. Deborah Oblaczynski, Policy and Planning Analyst Specialist, at (561) 682-2544 or doblaczy@sfwmd.gov.



Memorandum

TO: Florida State Clearinghouse

THROUGH: Greg Knecht, Director

Office of Ecosystem Projects

FROM: Inger Hansen, Jerilyn Ashworth, William C. Kennedy, and Dianne Hughes

DATE: January 20, 2012

SUBJECT: U.S. Army Corps of Engineers, Jacksonville District - Scoping Notice - Central

Everglades Planning Project - Okeechobee, Glades, Martin, Palm Beach,

Broward, Miami-Dade and Monroe Counties, Florida.

Background:

The Florida Department of Environmental Protection sincerely appreciates the opportunity to provide comments on the U.S. Army Corps of Engineers' (Corps) proposed Central Everglades Planning Project (CEPP). The CEPP is being developed under the Corps' Planning Transformation Pilot Program, whereby the Corps is expediting the development of a Project Implementation Report/Environmental Impact Statement (PIR/EIS) under the Comprehensive Everglades Restoration Plan (CERP) and the National Environmental Policy Act. The CEPP is a consolidation of several CERP project components including: Everglades Agricultural Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheet Flow Enhancement, Everglades National Park Seepage Management and Everglades Rain-Driven Operations. To address the requirements of the PIR/EIS, the Corps is working with both federal and state agencies to gather information necessary to better define the issues and concerns that need to be addressed during the CEPP plan formulation.

Comments:

The Department believes that the CEPP compliments the State of Florida's efforts in improving water quality and restoring the Everglades. Successful restoration of the Everglades is contingent on integrating and streamlining both the state and federal efforts. As noted by the National Research Council's Committee on Independent Scientific Review of Everglades Restoration Progress (2010), "continued decline of some aspects of the ecosystem coupled with environmental and societal changes make accelerated progress in Everglades restoration even more important." The Department, therefore, strongly supports the Corps' effort on moving the Central Everglades restoration effort forward on an expedited schedule.

The CEPP is one of the Corps' seven nationwide Planning Transformation Pilot Programs to improve the federal planning process by significantly reducing the timeframe and process necessary to develop an EIS or, in the case of CERP, a PIR/EIS. The new program has introduced several enhanced procedures, such as identifying risks early in the process to aid in addressing uncertainties in plan formulation and improving vertical communication and decision making within the Corps. With regards to this particular item, the Department

Florida State Clearinghouse Central Everglades Planning Project January 20, 2012 Page 2 of 3

recommends that the Corps maintain and provide a list of identified risks to the commenting agencies for their use in early issue resolution.

The Department believes that addressing water quality is one of the most critical components of this planning effort. The State of Florida is committed to addressing water quality with regard to the existing flows to the Everglades Protection Area consistent with the requirements of the state's phosphorus criterion. The Department requests that the Corps include, as part of the future without-project condition, the assumption that existing volumes of water will be treated to meet the objectives of the phosphorus criterion prior to discharge to the Everglades Protection Area.

In addition to the water quantity and quality assumptions for the future without-project condition identified above, the Department requests that the Corps use the existing quality of water flowing from Lake Okeechobee, and the delta between existing flows and future with-project flows, through the central flow path as a basis for planning additional treatment, storage or other features identified as part of the expedited planning process. As with the treatment of existing flows, the Corps should assume that any new water flowing to the Everglades Protection Area will be required to be treated to levels consistent with the phosphorus criterion.

The Department suggests that the Corps work closely with the local sponsor to establish expectations regarding cost sharing on all new components, or modifications to existing components, that ultimately result from the expedited planning process. In particular, cost sharing expectations for water quality projects need to be identified and resolved early on in the planning process.

The State of Florida, particularly the Department and the South Florida Water Management District (District), have spent a significant amount of time and money acquiring more than 243,000 acres of land for the implementation of the Comprehensive Everglades Restoration Plan. The Department requests that the Corps focus its planning efforts for storage and treatment projects on lands already owned by the District. The rationale for such limitations can be clearly articulated in the CEPP PIR/EIS. This focus would be in the best interest of taxpayers, as it will provide multiple benefits, including: elimination of evaluation of multiple footprints on lands not in District ownership, expediting the federal planning process and putting these significant investments to work.

The CEPP assumes in the future without-project condition that the foundation projects (specifically Modified Water Deliveries and South Dade C-111 projects), the first generation CERP projects and the second generation CERP projects are in place. However, the foundation projects have not been completed and the operation plans have not been developed, making project outcomes more difficult to predict.

As part of the scoping phase of the CEPP project, the Integrated Delivery Schedule (IDS) should be reevaluated. The current IDS shows that the DECOMP Part 1 project (now part of the CEPP)

Florida State Clearinghouse Central Everglades Planning Project January 20, 2012 Page 3 of 3

will be constructed in 2017-2020, whereas some of the second generation CERP projects, such as BCWPA, are not scheduled to be constructed before the 2020 timeframe. The BCWPA project influences both water quality inflows to Water Conservation Area 3 and Everglades National Park. The Department suggests that an evaluation of the implementation schedule for second generation CERP projects that may influence the CEPP should be carefully considered as part of the expedited planning process.

It is currently unclear if the Modified Water Deliveries (MWD) project will be completed as it was originally envisioned. The construction of certain features and seepage management/flood control aspects of the MWD project have not been fully addressed. Any future with-project condition scenario that includes features originally identified under the MWD project should be identified as being the sole responsibility of the federal government, with the exception of cost-share commitments made between the SFWMD and the Corps for operations.

Department staff looks forward to continued participation throughout the planning process. The Department would like to reiterate its commitment to the restoration of the Greater Everglades ecosystem and "getting the water right." Should you have any questions on the comments provided, please do not hesitate to contact Ms. Inger Hansen at (561) 682-2663.

Electronic copies to:

Greg Knecht
Chad Kennedy
Ernie Marks
Inger Hansen
Jerilyn Ashworth
Dianne Hughes
Deinna Nicholson



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

January 20, 2012

Colonel Alfred A. Pantano, Jr. Department of the Army Jacksonville District Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Colonel Pantano:

Subject: Department of the Army, Jacksonville District Corps of Engineers
Intent to Prepare an Environmental Impact Statement for the Central
Everglades Planning Project, Okeechobee, Glades, Martin, Palm
Beach, Broward, Miami-Dade and Monroe counties, FL Scoping Comments

The South Florida Water Management District submitted the attached letter in response to the U.S. Army Corps of Engineers (Corps) November 23, 2011 request for comments on the scope of the Central Everglades Planning Project (CEPP). These comments reflect the guidance received from the Governing Board at its January 12, 2012 business meeting concerning the goals and objectives of the Central Everglades Planning Project. Based on this direction, the District has identified three issues of significance, which are addressed in detail in the attached letter to the Florida State Clearinghouse.

- Water quality requirements, assumptions and cost-share;
- Use of existing District-owned lands in project formulation; and
- Inclusion in the CEPP "Future With Project Condition" of specific project features identified in the June 1992 General Design Memorandum and Environmental Impact Statement for Modified Water Deliveries to Everglades National Park.

The District is supportive of the Corps' reformed planning process, and is committed to moving Everglades restoration forward as envisioned in the CEPP. However, it is imperative that these issues be resolved early in the planning process so that both agencies – as trustees of the public's resources - have a clear understanding of our anticipated financial obligations prior to the onset of plan formulation.

In order to meet the expedited timetable envisioned for CEPP, the District and Corps should have agreed upon solutions by the first Decision Pont meeting scheduled for January 27, 2011. Tom Teets and I will be in Washington, D.C., to participate in this meeting.

Colonel Alfred A. Pantano, Jr. January 20, 2012 Page 2

MelisaLalera

Should there be any questions associated with the District's comments, please contact Tom Teets, Federal Policy Chief, at (561) 682-6993 or tteets@sfwmd.gov.

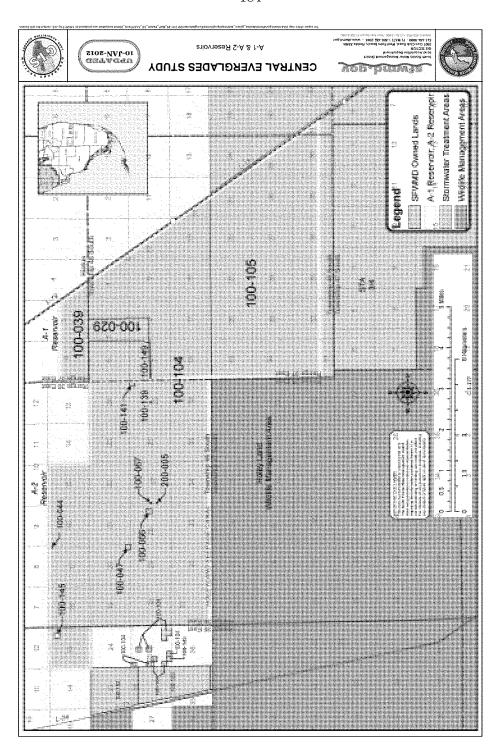
Sincerely,

Melissa L. Meeker Executive Director

South Florida Water Management District

MLM/bcl Attachment

c: Stuart Appelbaum, USACE Kimberly Taplin, USACE Ernie Barnett, SFWMD Tom Teets, SFWMD Matthew Morrison, SFWMD Greg Munson, FDEP Greg Knecht, FDEP





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

January 20, 2012

Ms. Lauren P. Milligan Environmental Manager Florida State Clearinghouse Florida Department of Environmental Protection 3900 Commonwealth Boulevard, MS 47 Tallahassee, FL 32399-3000

Dear Ms. Milligan:

Subject: Department of the Army, Jacksonville District Corps of Engineers Intent to Prepare an Environmental Impact Statement for the Central

Everglades Planning Project, Okeechobee, Glades, Martin, Palm Beach, Broward, Miami-Dade and Monroe counties, FL –

Scoping Comments

The South Florida Water Management District (District) appreciates the opportunity to provide comments on the scope of the Central Everglades Planning Project (CEPP) in accordance with the requirements of the regulations implementing the National Environmental Policy Act (NEPA), 40 C.F.R. Section 1501.7. The District has provided technical resources to the U.S. Army Corps of Engineers (Corps) during this project scoping phase and at its January 12, 2012 business meeting, presented comprehensive information about the goals and objectives of the Central Everglades Planning Project to its Governing Board. The District's enclosed comments reflect the guidance provided by the Governing Board on the resolution of specific policy issues, which will be necessary prior to the Corps' first Decision Point and before proceeding as local sponsor into the execution phase of the project.

Background

The Comprehensive Everglades Restoration Plan (CERP) is an unprecedented 50/50 cost-share partnership between the federal government and the State of Florida, with the South Florida Water Management District authorized by the State as the local sponsor for CERP projects (373.1501(4), F.S.). Approved in Section 601(h) of the federal Water Resources Development Act of 2000, CERP is the framework for improving and restoring the quality, quantity, timing and distribution of water to the South Florida ecosystem, while providing for other water related needs of the region.

The Corps intends the Central Everglades Planning Project to be the next step in the ongoing implementation of CERP. Specifically, the purpose of the Central Everglades Planning Project is to develop an initial increment of CERP project features that provide for storage, treatment and conveyance of water south of Lake Okeechobee; removal of canals and levees within Water Conservation Area 3; and implementation of seepage management features to retain water within the natural system. The Corps has identified the following inter-related CERP projects to accomplish these objectives:

- Everglades Agricultural Storage Reservoirs
- Water Conservation Area 3 Decompartmentalization and Sheet Flow Enhancement
- Everglades National Park Seepage Management
- Everglades Rain-Driven Operations

Identified as one of seven pilot projects nationwide, the Corps intends to undertake and fast-track an integrated study effort on these projects through the development of an integrated Project Implementation Report and Environmental Impact Statement. This expedited study is being conducted under the Corps' newly reformed planning process that is designed to cut years from the planning process by completing and approving the Project Implementation Report through the Civil Works Review Board within 18 months.

Guidance on the expedited planning process from the Assistant Secretary of the Army (Civil Works) directs the Corps to determine the expected level of federal investment early in the decision-making process and to clearly communicate such decisions with the intended local sponsor and other stakeholders in order to appropriately steer plan formulation. For the Central Everglades Planning Project, this first Decision Point is scheduled for January 27, 2012.

As the local sponsor, the South Florida Water Management District has played an integral role in developing and implementing the Comprehensive Everglades Restoration Plan. Consequently, the District is uniquely positioned to provide valuable input for inclusion by the Corps in the Project Implementation Report. We also have a vested interest in the Corps' decisions on the expected level of federal investment in these cost-shared projects.

The District has identified three issues of significance that must be addressed if the District is to move forward with local sponsorship of the Central Everglades Planning Project, and if remaining milestones of the expedited planning process are to be met.

These issues of significance, described in detail below, are:

- Water quality requirements, assumptions and cost-share;
- Use of existing District-owned lands in project formulation; and
- Inclusion in the CEPP "Future With Project Condition" of specific project features identified in the June 1992 General Design Memorandum and Environmental Impact Statement for Modified Water Deliveries to Everglades National Park.

Water Quality Requirements, Assumptions and Cost-Share

A. Future Without Project Condition – Existing Water Flows to the Everglades Protection Area

As a part of its negotiations with the U.S. Environmental Protection Agency to achieve water quality requirements in the Everglades Protection Area, the District has proposed a suite of treatment and storage facilities – including a 54,000 acre-feet Flow Equalization Basin on the Everglades Agricultural Area A-1 parcel - that will treat existing flows from the Everglades Agricultural Area and Lake Okeechobee through the central flow path and to the Everglades Protection Area.

For the purposes of the Central Everglades Planning Project, the District can only support the Corps' assuming for the "Future Without Project Condition" that the District will treat current annual flows of approximately 850,000 acre-feet of water to a flow-weighted mean for total phosphorus of 13 parts per billion (ppb). All facilities needed to treat existing inflows, as proposed by the State of Florida in response to the U.S. Environmental Protection Agency's Amended Determination, would be non-federally funded.

B. Future With Project Condition - New Water Flows Identified by the Central Everglades Planning Project to the Everglades Protection Area

The quality of water leaving Lake Okeechobee to the south will be a key factor in determining the size and type of facilities necessary to treat the water before it flows into the Everglades Protection Area. As part of its assumptions for the Central Everglades Planning Project, the Corps should use the existing quality of water flowing from Lake Okeechobee through the central flow path as a basis for planning additional treatment facilities. Consistent with the treatment of existing flows, the Corps should also assume that new water flowing to the Everglades Protection Area will be treated to 13 ppb total phosphorus.

The District will support a 50/50 federal/District cost-share for storage, treatment and conveyance of volumes over and above existing annual flows in the central flow path that are redirected through the Everglades Agricultural Area to the Everglades Protection Area for restoration purposes. Central Everglades project features developed to treat new water should be cost-shared in accordance with CERP project cost-share provisions, Section 601(e) of the Water Resources Development Act of 2000. In addition, it should be noted that the Corps also has independent authority under Section 528 of the Water Resources Development Act of 1996 to 50/50 cost-share water quality improvement features that are essential for restoring the Everglades.

Use of Existing District-Owned Lands

As local sponsor, the District has to-date acquired more than 243,000 acres toward implementation of the Comprehensive Everglades Restoration Plan – 36,000 acres of which are ideally located for project utilization within the central Everglades flow path. To implement the initial increment of restoration for the central Everglades in an expeditious, cost-effective and commonsense manner, formulation of Central Everglades Planning Project features should be undertaken utilizing the lands already acquired by the District (Attachment).

It is the District's position that under NEPA, the Corps can choose to limit the scope of its analysis to District-owned lands so long as the CEPP Project Implementation Report and Environmental Impact Statement clearly explains the rationale for this option and its effects on the decision-making process. As allowed under NEPA, it would be in the best interest of the taxpayers to use the scoping process to focus plan formulation activities on District-owned lands, which will provide multiple benefits, including: eliminating any unnecessary evaluation of multiple footprints on lands not in public ownership; fast-tracking planning; and putting the land in which taxpayers have invested millions of dollars to work.

Inclusion of Specific Modified Water Deliveries to Everglades National Park Project Features

The Modified Water Deliveries to Everglades National Park project was authorized by Congress in 1989 as a federal foundation project critical to the restoration of Everglades National Park and Florida Bay. As Congress recognized in the Water Resources Development Act of 2000, Modified Waters is a prerequisite to some CERP projects and, as a foundation project, is not a part of CERP. Planning, design and construction of the

features associated with Modified Water Deliveries is the full responsibility of the federal government. In addition, the federal government is also responsible for reimbursing the local sponsor for 75 percent of the operations and maintenance for the life of the project.

The General Design Memorandum and Environmental Impact Statement for Modified Water Deliveries to Everglades National Park, dated June 1992, identified the following features that were to be constructed as part of the Modified Water Deliveries Project:

- 1. Three Gated Culvert Structures (S-345A, S-345B and S-345C)
- 2. Three Gated Concrete Headwall Structures (S-349A, S-349B and S-349C) located in the L-67A Borrow Canal
- 3. Degrading the existing Levee 67 Extension and filling the borrow canal

To date, these features have not been constructed—or are only partially constructed—and are not anticipated to be completed as part of the Modified Water Deliveries project. The Corps is currently considering whether these features are assumed to be a part of the "Future Without Project Condition" or "Future With Project Condition" in the Central Everglades Planning Project formulation process.

The District can support inclusion of these features in the "Future With Project Condition" only if the Corps identifies in the Central Everglades Project Implementation Report and Environmental Impact Statement that construction and operation of these features will be cost-shared in accordance with the terms and conditions of the Project Cooperation Agreement between the District and the Department of the Army to Improve Water Deliveries to Everglades National Park dated September 24, 1994 and its subsequent amendments. The District cannot agree to cost-share construction and operation of these features under the CERP authority, Section 601(e) of the Water Resources Development Act of 2000.

Summary

The District is a committed partner in the restoration of America's Everglades and is investing technical resources to assist the Corps in implementing the scoping phase of the Central Everglades Planning Project. While the District is fully supportive of the expedited planning process, definitive and prompt resolution of the District's issues of significance must be reached prior to the first Decision Point and before continuing into the execution phase of this process. In summary, the Corps should:

- Provide a 50/50 cost-share commitment for water quality features necessary to treat *new* volumes of water identified for restoration in the central flow path.
- Preclude the need for new land acquisition by focusing project formulation on District-owned lands to expedite planning and implementation.
- Provide a cost-share commitment for any incorporated Modified Water Deliveries
 project components for the federal government to fully fund land acquisition and
 construction, as well as 75 percent of operations and maintenance, as originally
 agreed to in the Project Cooperation Agreement for this foundation project.

The South Florida Water Management District has demonstrated a continued commitment to strengthening and fulfilling our role as local sponsor for the Comprehensive Everglades Restoration Plan. We look forward to receiving a timely decision from the Corps that resolves these important policy issues associated with the Central Everglades Planning Project and moves the restoration of America's Everglades expeditiously forward.

Should there be any questions associated with the District's comments, please contact Tom Teets, Federal Policy Chief, at (561) 682-6993 or tteets@sfwmd.gov.

Sincerely,

Melissa L. Meeker Executive Director

South Florida Water Management District

MLM/bcl Attachment

c: Stuart Appelbaum, USACE
Ernie Barnett, SFWMD
Shannon Estenoz, DOI
Greg Knecht, FDEP
Matthew Morrison, SFWMD
Greg Munson, FDEP
Colonel Al Pantano, USACE
SFWMD Governing Board Members
Kimberly Taplin, USACE
Tom Teets, SFWMD

bc: Carolyn Ansay, SFWMD Abe Cooper, SFWMD Beth Lewis, SFWMD Deena Reppen, SFWMD Paul Warner, SFWMD OFFICE OF AGRICULTURAL WATER POLICY 18501-617-1700



MAGNOLIA CENTER, SLITE 200 1203 GOVERNOR'S SQUARE BOLLEVARD TALLAHASSEC, FLORIDA 32301

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES COMMISSIONER ADAM H. PUTNAM

DATE January 17, 2012

TO Lauren P Milligan, Environmental Manager, Florida State Clearinghouse

FROM W Ray Scott, Conservation and Water Policy Federal Programs Coordinator

Office of Agricultural Water Policy

RE State Clearinghouse Review Comments (SAI # FL20112066056)

Department of the Army, Jacksonville District Corps of Engineers — Scoping Notice — Central Everglades Planning Project (CEPP). Integrate and Accelerate Implementation of Comprehensive Everglades Restoration Plan Projects in South

Florida

The Florida Department of Agriculture and Consumer Services (FDACS) appreciates the opportunity to provide comments for the NEPA scoping of the Central Everglades Planning Project (CEPP) We are submitting the following comments for consideration as part of the Florida State Clearinghouse consistency evaluation

FDACS supports the Corps' intent to conduct an integrated study of the Everglades Agricultural Storage Reservoirs. Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park Seepage Management, and Everglades Rain-Driven Operations. In addition, we fully support the objective of restoring flows to the south and reducing harmful discharges to the east and west coast estuaries. Finally, we appreciate the Corps' effort to produce the CEPP Project Implementation Report (PIR) in an expedited manner. There are, however, significant issues that need to be addressed if this effort is to be successful.

First, the process for developing the CEPP must clearly recognize the interim status of the current Lake Okeechobee Regulation Schedule, and it would be inappropriate to assume the LORS08 schedule for either the With- or Without-Project scenarios. Planned repairs to the Herbert Hoover Dike should increase storage in the Lake, and the planning process should consider the availability of that additional storage in its analysis of project alternatives. Any additional demands on the Lake must be carefully evaluated in light of existing demands of both water users and the environment, as well as future demands from other CERP components (e.g., the C-43 Reservoir) that rely upon Lake water.



Florida State Clearinghouse January 17, 2012 Page Two

Second, the planning process must realistically deal with water quality considerations. The Comprehensive Everglades Restoration Plan (CERP) is built upon assumptions regarding water quality that we cannot continue to accept because water quality constraints can prevent the movement of additional water through the central part of the system. The in-lake phosphorus concentration for Lake Okeechobee is one such constraint, even if one assumes that the total maximum daily load (TMDL) for phosphorus will be met in the foreseeable future. Issues related to the Stormwater Treatment Areas (STAs) must also be addressed. Without resolving the legal and technical uncertainties characterizing the STAs as currently operated, it is hard to envision how additional water made available by the CEPP can be moved southward.

We look forward to participating in the development of the CEPP. Thank you for the opportunity to provide comments, and if you have questions regarding our comments please contact Ray Scott (850-410-6714) or Rebecca Elliott (561-682-6040).

Audubon of Florida * Audubon Society of the Everglades
Clean Water Action * Ding Darling Wildlife Society
Everglades Foundation * Florida Wildlife Federation
Florida Oceanographic Society * League of Women Voters of Florida
National Parks Conservation Association * Natural Resources Defense Council
Sierra Club * South Florida Audubon Society * Tropical Audubon Society

January 20, 2012

Attn: Gina Paduano Ralph, Ph.D Department of the Army Planning and Policy Division Jacksonville District Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Dr. Ralph;

On behalf of the undersigned organizations, we appreciate the opportunity to comment on Central Everglades Planning Project (CEPP) scoping. We share the Army Corps of Engineers' concerns regarding the urgent need for delivering increased water flows and the high costs of delay in Everglades restoration that threaten irreversible ecosystem damage. Thus, we strongly support the initiative to develop a CEPP Project Implementation Report (PIR) for Congressional approval by May 2013 that will reduce damaging discharges to east and west coast estuaries; restore habitat in the central Everglades, focusing on the "River of Grass"; and deliver "new" sources of clean water to the central Everglades and Everglades National Park (ENP).

The National Research Council of the National Academies Progress Toward Restoring The Everglades: Third Biennial Review 2010 stated: "Given the slower than anticipated pace of implementation and unreliable funding schedule, projects should be scheduled with the aim of achieving substantial restoration benefits as soon as possible." CEPP provides the opportunity to bundle the planning and implementation of several related projects, and the threats facing the central Everglades make it vital that a draft plan is prepared to be presented at the April 24, 2013 Civil Works Review Board Meeting as stated by Assistant Secretary Jo-Ellen Darcy. This will ensure that we can advance Everglades restoration in the central part of the Everglades ecosystem and avoid irreversible damage. To accomplish the CEPP in an efficient and meaningful way, the undersigned organizations strongly urge the Army Corps of Engineers (Corps) to include the following recommendations and considerations in CEPP scoping:

First, the CEPP must decompartmentalize a significant majority of Water Conservation Area (WCA) 3, improve the quality of water headed south, and help resolve seepage management issues to the east. Almost a decade of planning conducted as part of the Comprehensive Everglades Restoration Plan's (CERP's) WCA 3 Decompartmentalization and Sheet Flow Enhancement (Decomp) Project has identified many specific elements that should be included in the CEPP PIR; to help expedite current planning efforts, the CEPP should build on data and tools developed in previous Decomp Project Delivery Team (PDT) efforts. Planning by the South Water Management District as part of its River of Grass initiative also provides useful lessons

that should inform the CEPP. Incorporating previous planning efforts will allow CEPP to move forward at a speed needed to provide a PIR by 2013. In particular, the CEPP should:

- Incorporate the findings of the Decomp Physical Model as they become available in the next 18 months.
- Explore including the Decomp hydropattern restoration feature (i.e. spreader canals) along the northern border of WCA 3A.
- Consider innovative partial backfill and plugging opportunities of the L-67A and L-67C
 canals that could provide increased access and continued fishing opportunities, while at
 the same time ensuring the canals do not interfere with sheetflow in ways that have
 adverse ecological consequences, or result in adverse water quality impacts.
- Assess options to degrade, including by partially backfilling or plugging, the Miami Canal in order to allow water into WCA 3B.
- Analyze options to degrade the L-29 levee, including by way of new outlets and culverts.
- Explore phasing alternatives for planned additional elevation and bridging of Tamiami Trail, using information from the Department of Interior's November 2010 Tamiami Trail Modifications: Next Steps Final Environmental Impact Statement.
- Evaluate the use of available levee material to recreate tree islands.

As outlined in the recommendations of the National Research Council of the National Academies Progress Toward Restoring The Everglades: Third Biennial Review 2010, increased water storage is essential to Everglades restoration efforts. To that end, CEPP must evaluate implementing increased storage, treatment and conveyance in the Everglades Agricultural Area (EAA). Specifically, we urge Corps to include the following in its CEPP scoping:

- An evaluation of (1) the use of the lands known as the A1 and A2 parcels, which were
 purchased by the federal government pursuant to the Talisman Land Acquisitions Grant
 Agreement, as storm water treatment areas (STAs) and (2) the potential replacement
 acreage of any acres used for STAs with lands or other options (as required under the
 grant agreement) that would enable increased water flows to the central Everglades and
 ENP including Florida Bay.
- An estimation of storage needed to enable increased water flows to the central Everglades and ENP including Florida Bay and a discussion of options to provide needed additional storage.

In order to manage increased flows, it will be necessary to include improved seepage management. Specifically, we urge the Corps to:

- Evaluate the miners' proposed L-31N seepage pilot project, designed to resolve significant seepage out of ENP.
- Evaluate whether additional seepage components are needed to resolve seepage out of the central Everglades and ENP.

Operational changes will be needed to make use of many of the structural changes being considered as part of the CEPP. While we recognize that detailed consideration of operational

changes may be outside the scope of the CEPP, the environmental benefits of the CEPP will depend on operations currently in place or under evaluation in parallel processes. For that reason, we recommend that the CEPP assess the operational changes occurring or being considered as part of the Everglades Restoration Transition Plan and the Combined Operations Plan. In particular, the CEPP should:

- Consider opening the S-151 structure to allow additional flow into WCA 3B.
- Consider raising L-29 levels during short-term high-water emergencies.
- Evaluate the need for more appropriate water levels in WCA 3A, 3B, and ENP, as
 opposed to stair-step levels now often found moving among the areas and damaging the
 ecosystem.

While the CEPP cannot take on the challenges posed by the many related projects that are in operation or in planning stages, it should review the status and operations of projects such as the 8.5 Square Mile Area and C-111 Western and South Dade projects and highlight needed adjustments to ensure that they meet their stated goals and achieve ecological objectives.

We understand that the features of CEPP's first increment may be constrained by federal and state appropriations, and we further appreciate the tremendous amount of effort the Corps PDT will undertake to move this planning effort forward expediently. Water storage and water treatment must move forward together and it is important that water moved south is clean. We remain committed to assisting in this process and to helping ensure increased water flows to the central Everglades, relief to the northern estuaries, and ecological benefits for America's Everglades. The realization of ecological benefits from the first increment of CEPP is essential to build upon in order to gain support for future CEPP phases and other Everglades restoration efforts

We look forward to working with you in this ambitious endeavor and invite any questions or comments you may have.

Sincerely,

Signatures waived to expedite delivery

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Laura Reynolds Executive Director Tropical Audubon Society 5530 Sunset Drive Miami, FL 33143 (305) 667-PEEP

Doug Young, President South Florida Audubon Society P.O. Box 9644 Fort Lauderdale, FL 33310-9644 (954) 776-5585

C.3.2 Agency Coordination and Public Involvement

Agency coordination and public involvement has taken place throughout the CEPP planning process. Project Delivery Team (PDT) and public involvement has been a critical component of the development of this PIR. **Table C.3.2-1** provides a list of interagency coordination and public presentations conducted throughout the planning process for CEPP.

C.3.2.1 Agency Coordination and Public Involvement Summary

Table C.3.2-1. Agency Coordination and Public Involvement Summary

Action	Location	Date
NEDA C Marriago	Plantation, FL	December 14, 2011
NEPA Scoping Meetings	Clewiston, FL	December 15, 2011
	Estero, FL	December 10, 2012
	Homestead, FL	December 11, 2012
NEPA Final Array Public	Clewiston, FL	December 12, 2012
Meetings	Stuart, FL	December 13, 2012
	Coconut Creek, FL	December 18, 2012
	Plantation, FL	September 16, 2013
NEDA D O DID (EIS D	Fort Myers, FL	September 17, 2013
NEPA Draft PIR/EIS Public	West Palm Beach, FL	September 18, 2013
Meetings	Stuart, FL	September 19, 2013
	Homestead, Fl	September 25, 2013
	West Palm Beach, FL	December 16, 2011
	West Palm Beach, FL	January 31, 2012
	West Palm Beach, FL	March 1, 2012
	West Palm Beach, FL	March 26, 2012
	West Palm Beach, FL	April 18, 2012
	West Palm Beach, FL	May 14, 2012
	West Palm Beach, FL	May 31, 2012
	Teleconference/Webinar	June 11, 2012
	Hobe Sound, FL	July 2 and 3, 2012
	West Palm Beach, FL	July 31, 2012
Project Delivery Team Meetings	Teleconference/Webinar	August 14, 2012
Project Delivery Team Meetings	West Palm Beach, FL	September 4 and 5, 2012
	Teleconference/Webinar	October 1, 2012
	Teleconference/Webinar	October 15, 2012
	West Palm Beach, FL	October 24, 2012
	West Palm Beach, FL	November 16, 2012
	West Palm Beach, FL	December 5, 2012
	West Palm Beach, FL	December 19, 2012
	West Palm Beach, FL	January 15, 2013
	West Palm Beach, FL	January 23-24, 2013
	West Palm Beach, FL	March 5, 2013
	Teleconference/Webinar	March 20, 2013

Action	Location	Date
	West Palm Beach, FL	May 10. 2013
	Teleconference/Webinar	June 14, 2013
	West Palm Beach, FL	July 1, 2013
	West Palm Beach, FL	July 8, 2013
	West Palm Beach, FL	October 27, 2011
	Coral Springs, FL	March 7, 2012
South Florida Ecosystem	Washington D.C.	June 19, 2012
Restoration Task Force	West Palm Beach, FL	December 7, 2012
	West Palm Beach, FL	July 9. 2013
	West Palm Beach, FL	November 30, 2011
	West Palm Beach, FL	December 16, 2011
	West Palm Beach, FL	January 25, 2012
	West Palm Beach, FL	March 1, 2012
	West Palm Beach, FL	March 9' 2012
	Coral Springs, FL	April 17, 2012
Workshop sponsored by South	West Palm Beach, FL	May 15, 2012
Florida Ecosystem Restoration	Jensen Beach, FL	June 26, 2012
Task Force Working Group	West Palm Beach, FL	August 29, 2012
	West Palm Beach, FL	August 30, 2012
	Doral, FL	September 26, 2012
	West Palm Beach, FL	October 25, 2012
	West Palm Beach, FL	November 19, 2012
	West Palm Beach, FL	February 13, 2013
	West Palm Beach, FL	February 25, 2013
Workshop sponsored by South	West Palm Beach, FL	February 13 and 14, 2012
Florida Ecosystem Restoration	, , ,	, , ,
Task Force Science Coordination		
Group		
	West Palm Beach, FL	November 17, 2011
South Florida Ecosystem	Coral Springs, FL	February 15, 2012
Restoration Task Force Joint	Coral Springs, FL	May 16, 2012
Working Group and Science	West Palm Beach, FL	September 20, 2012
Coordination Group Meetings	West Palm Beach, FL	January 31, 2013
	West Palm Beach, FL	June 25, 2013
	Miami, FL	November 3, 2011
	West Palm Beach, FL	January 5, 2012
Maria Barana Addi	West Palm Beach, FL	February 2, 2012
Water Resources Advisory	West Palm Beach, FL	March 8, 2012
Council	West Palm Beach, FL	April 5, 2012
	West Palm Beach, FL	May 3, 2012
	West Palm Beach, FL	August 2, 2012
	West Palm Beach, FL	September 6, 2012
	St. Cloud, FL	November 8, 2012
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Action	Location	Date
	West Palm Beach, FL	January 3, 2013
	West Palm Beach, FL	February 7, 2013
	Clewiston, FL	April 4, 2013
	West Palm Beach, FL	July 8, 2013
	West Palm Beach, FL	March 19, 2012
Water Resources Advisory	West Palm Beach, FL	June 18, 2012
Council Recreation Issues Team	West Palm Beach, FL	September 17, 2012
Briefings	West Palm Beach, FL	December 17, 2012
	West Palm Beach, FL	March 18, 2013
Committee on Independent	Ft. Lauderdale, FL	January 26, 2012
Scientific Review of Everglades	Ft. Lauderdale, FL	November 27, 2012
Restoration Progress		
Ten County Coalition Meeting	Okeechobee, FL	March 30, 2012
	West Palm Beach, FL	January 12, 2012
	Hollywood, FL	February 9, 2012
	West Palm Beach, FL	March 15, 2012
	West Palm Beach, FL	April 12, 2012
	West Palm Beach, FL	May 10, 2012
	Okeechobee, FL	June 14, 2012
	West Palm Beach, FL	July 12, 2012
South Florida Water	West Palm Beach, FL	August 9, 2012
Management District Governing	West Palm Beach, FL	September 13, 2012
Board	West Palm Beach, FL	October 11, 2012
Doard	West Palm Beach, FL	November 15, 2012
	West Palm Beach, FL	December 13, 2012
	Orlando, FL	February 14, 2013
	West Palm Beach	March 14, 2013
	West Palm Beach	April 11, 2013
	West Palm Beach	May 9. 2013
	West Palm Beach	June 13, 2013
	West Palm Beach	July 11, 2013
BASS Conservation Leaders	Ft. Lauderdale, FL	
Meeting		February 14, 2013
Annual Meeting with	Miami, FL	December 1, 2011
Miccosukee Tribe		December 6, 2012
Biscayne Bay Regional	Vîrginia Key, FL	September 26, 2012
Restoration Coordination Team	Virginia Key, FL	December 18, 2012

C.3.2.2 Agency and Public Involvement Comment Response Matrices

Table C.3.2-2. Comment response matrix detailing comments received during the CEPP planning process with USACE responses

LETTER	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
Seminole Tribe of Florida	e of Florida		
Seminole - 1	7-2-2012	On behalf of the Seminole Tribe of Florida, I am requesting a meeting to discuss the Tribe's concern regarding the impact of the developing Central Everglades Planning Project (ECPP) on our Big Cypress Reservation. We anticipate that the Big Cypress National Preserve (BCNP), with whom we share a border north of the Addition Lands, might share our concerns about reserving water necessary to support a healthy ecosystem in our mutual native areas.	On behalf of the Seminole Tribe of Florida, I am ve are looking forward to a follow-on discussion of the above at requesting a meeting to discuss the Tribe's concern regarding the impact of the developing Central Lisison, will continue to work on these actions so that a future meeting Cypress Reservation. We anticipate that the Big can be used as a forum to finalize the details and to chart a mutually share a border north of the Addition Lands, might share our concerns about reserving water necessary to support a healthy ecosystem in our mutual native.
Serninole - 2	7-2-2012	While we agree that the Everglades is a unique ecosystem, as acknowledged by its World Heritage Site designation and consistent multi-decade by partisan national support for structural and operational water projects to restore and protect it, we want to highlight the uniqueness of the "Everglades" that compose the Tribe's Big Cypress Reservation. In the western flow-way of the historic Everglades, Big Cypress incorporates a collection of varied ecosystems from saw grass prairie to hardwood harmmocks that is home to many species, including some classified as threatened and endangered, and most that represent some cultural and/or religious value to the Tribe. The Tribe interprets the "health" of its people upon the health of its lands and waters, as guided by our elders. And we note that it will not be possible to restore the	
		Everglades without Tenyarating the big cypress Reservation and the BCNP Addition Lands.	CEPP study unfortunately cannot specifically address multiple

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LETTER	Date	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	RECEIVED		restoration projects, to include the delivery of water to the Big Cypress Reservation as you envision. As only the first of several increments to support restoration, the ongoing CEPP study is seeking to identify a suite of projects in an unprecedented 18-month period that most effectively capitalizes on existing data, knowledge, evaluation tools, previously constructed restoration features, and lands currently available. I am optimistic that the new streamlined planning paradigm will provide restoration benefits quicker than ever. Implementing an incremental approach along with the continued gathering of critical scientific data and knowledge will certainly facilitate future studies and subsequent progress in restoration.
Seminole - 3	7-2-2012	Over the last 20 years, the Seminole Tribe has planned and implemented water infrastructure projects designed to improve the hydrology on the Big Cypress Reservation, located in Hendry and Broward Counties, north of the BCNP border, in the C-199 Basin. The hydrology and environment on the Reservation had been negatively and cumulatively impacted by the Central and South Florida Project, as well as by Bureau of Indian Affairs (BIA) supported agricultural defaniage projects. The Tribe is building, in full partnership with the Corps of Engineers (Corps.) the Big Cypress Reservation Critical Project as part of the Critical Project Program authorized by WRDA 1996. While this project has and will address may of the problems created by earlier federally supported water control projects, minimum flows and levels needed for adequate hydration of the native areas on the Reservation and in the northern part of the BCNIP, including the Addition Lands, still must be addressed. A new water reservation for the environment must be considered in excess of the Tribe's existing water rights as described in our water reservation for the problems.	In addition, the discussions on July 13, 2012 resulted in several potential remedies to address the hydration concerns on the Big Cypress Reservation and in the northern part of BCNP. The first includes incorporating adaptive measures as described in the September 24, 2003 Wetland Management Plan prepared by AMS Engineering and Environmental, Incorporated which in part states that "If, after three years of operation, the annual success criteria evaluation at any given project feature indicates deficiencies in attainment of successful enhancement/restoration of wetland resources or abatement of phosphorus discharges to off-reservation waters, the Tribe will confer with the Corps." Pursuant to the outcome of the review, the Tribe will prepare an adaptive management plan for review and approval by the Corps prior to implementing any changes in the operations of the feature. This plan should focus on Basin 1 outlets and siphon design elevations with the intent of delivering more water to native areas by, in part, minimizing the loss of water underground and to the feeder canal. Secondly, a change to the schedule governing the 5-190 water control structure may yield higher groundwater elevations within the western portion of the Big Cypress Reservation by increasing water storage in the West Feeder and North Feeder canals. This effort in particular would likely be realized through a temporator deviation to

April 2014 C.3-195

CEPP Final PIR and EIS

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IFTTER	Date	AGENCY/PLIBLIC COMMENT	CORPS RESPONSE
	Received	involved in the greater Everglades Restoration effort along with our projects focused on our lands, we have come to appreciate the need for minimum flows and levels to supply clean water to support the environmental needs of our lands. This realization has led us to this meeting request.	Corps and South Florida Water Management District operations staff, it should be noted that our staff continues to explore possible alternatives within the criteria of the existing Water Control Plan (WCP) to closely meet intended outcomes. Finally, the Corps team members are exploring the process for conducting a Watershed Study that would best identify the hydrologic conditions underlying the Big Cypress Reservation and adjacent areas. Section 203 of the Water Resources Development Act of 2000 authorizes the Secretary of the Army, in cooperation with Indian tribes and the heads of other Federal agencies, to study and determine the feasibility of carrying out projects that will substantially benefit Indian Tribes. Section 203 titled Tribal Partnership Program, also establishes cost sharing provisions, defines cooperation and consultation requirements, and authorizes appropriations. Please reference the enclosed booklet for details on this authorization and additional programs the U.S. Army Corps of Engineers have available and could possibly be a benefit to the Big Cypress Reservation.
Seminole - 4	7-2-2012	Over the past few months, representatives for the Tribe have been participating in numerous meetings to discuss CEPP, including some meetings with your staff focused on the issue of moving water to the western Everglades through the Big Cypress Reservation and the Addition Lands of the Big Cypress National Preserve. We look forward to getting some feedback on our proposals in the upcoming meeting now scheduled for July 13. More specifically, we seek your agencies feedback on: 1. How to assure water reservations to supply environmental needs on our and federal native lands adjacent to the Big Cypress Reservation; and 2. How to deliver water to the Big Cypress Reservation; and	Taken together, the above three actions would have the strategic goal of gaining a better understanding of groundwater conditions which can be used in future planning studies. In the near-term, of course, the first two actions may provide environmental benefits by themselves.
Seminole - 5	7-2-2012	While CEPP is being fully vetted, we believe that consideration of the new water reservations to sustain the environment on Big Cypress and in the BCNP Addition Lands is well timed. Attached for	We are looking forward to a follow-on discussion of the above at your earliest convenience with your staff. Ms. Natalie Garrett, Tribal Liaison, will coordinate the upcoming meeting with in the meantime. we will continue to work on these actions so that a future meeting.

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Appendix C.3

LETTER	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		your consideration is a draft agenda to guide this meeting. Patricia Powers on behalf of the Tribe will follow-un with voir office to confirm narticination	can be used as a forum to finalize the details and to chart a mutually-agreeable path forward.
		in the July 13 meeting.	
Seminole - 6	11-7-2012	The Seminole Tribe has been actively engaged in the	The Jacksonville District and the South Florida Water Management
		South Florida Ecosystem Restoration effort for	District are actively engaged in efforts hosted by the South Florida
		hearly 20 years. We have supported this effort	Ecosystem Restoration Task Force and to facilitate the development of appropriate models to address the Wortern Basins Bart of this
		recinically and politically model an of these years. More specifically, we are constructing in full	or appropriate mouets to address the western basins, rait of this process includes capitalizing on knowledge gained from the oppoing
		partnership with the Corps, an extensive water	construction of the Seminole Big Cypress Critical Project. We will
		control system on the Big Cypress Reservation. This	continue to use regularly-scheduled Seminole Big Cypress Critical
		project is important to us and to our region and we	Project, Project Delivery Team meetings to collaboratively identify
		appreciate the Corps' work and federal funding. But	and address opportunities to improve that project's performance. In
		focusing solely on the land and water within our	the course of these meetings we collectively determined that
		Reservation's legal boundaries is short-sighted. And	addressing the operation of the 5-190 structure is a critical step prior
		this has been our position for nearly two decades.	to project modifications. Accordingly, the Jacksonville District is
		We have urged over and over again through all that	currently scoping a plan for a modification to the existing S-190
		planning efforts, including the Restudy which is the	operations.
		basis for CERP, to include the western basins in the	
		Central Everglades system in the monitoring,	
		modeling, data gathering, design, planning, and	
		project implementation. So please appreciate our	
		deep disappointment to be told that waters in the	
	-	western basins that impact the CEPP are not	
		included in the scope of CEPP because the	
		monitoring, data gathering, and modeling have still	
		not been done in this region, despite our repeated	
		requests to do so for over 14 years, we applaud the	
		Corps' drive to complete the CEPP planning process	
		in 18 months, but we remain very concerned by the	
		long-standing inattention to this region.	
Seminole - 7	11-7-2012	Apart from the fact that we, a valued partner in	Please refer to response to Seminole -6.
		Everglades Restoration by all accounts, have been	
		effectively ignored in our repeated requests for	
		monitoring, modeling, and planning in this region,	
		we note that the federal government has an	

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		obligation through its trust responsibilities to restore the northwest corner of WCA 3A, where the Seminole Tribe of Florida retains hunting and fishing rights, at a minimum. Beyond CEPP, we would like to discuss further how the Corps and its State partner intend to address the Central Everglades models.	
Seminole - 8	11-7-2012	As to your specific suggestions for addressing our water supply concerns, we welcome your offers. Regarding your suggestion to exercise adaptive management of Basin 1 of the critical project, we look forward to working with your engineering and wetlands regulatory staff on crafting operational changes to the outlets and siphons in order to deliver more water to the native areas south of the West Feeder Canal in the Big Cypress Seminole Indian Reservation. We assume that such work will be eligible for funding under the Operations & Maniterance provisions of the project's Project Cooperation Agreement. Regarding the 5-130 water control structure temporary deviation, we are encouraged by the option to work effectively within the existing regulation schedule to increase water storage in the West and North Feeder Canals, which will allow more water to replenish groundwater of the reservation. We would like to schedule meetings as soon as possible with the Corps and SPWMD to discuss the details and timing of the temporary deviation. I note here that we are also concerned about the structural integrity of the 5-130 water	Please refer to response to Seminole -6
Semínole - 10	11-7-2012	control structure and urge the Corps and the District to carefully review the soundness of the structure and take all actions necessary to make it secure. And thank you for the information on the Tribal	Thank you for your comment. The USACE will continue to maintain

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		Partnership Program as authorized by Section 203. We will take a careful review of this program and make a decision about whether or not to apply at a later date.	ongoing communications with the Seminole Tribe of Florida regarding the Big Cypress Reservation. Please refer to response to Seminole -6
Seminole - 11	11.7-2012	Managing water resources in South Florida is a steep challenge. The only way to meet this challenge is to work together to plan a future that balances competing needs fairly, which requires a more comprehensive view of the system. For as long as the monitoring and modeling in the western basins is not addressed, the South Florida Ecosystem restoration plan is incomplete.	Thank you for your comment. The USACE will continue to maintain ongoing communications with the Seminole Tribe of Florida regarding the Big Cypress Reservation. Please refer to response to Seminole -6
Seminole - 12	11-7-2012	We look forward to continue to work with you to remedy this situation and to address the pressing needs of the Tribe to correct the hydrology surrounding our Big Cypress Reservation.	Thank you for your comment. The USACE will continue to maintain ongoing communications with the Seminole Tribe of Florida regarding the Big Cypress Reservation. Please refer to response to Seminole -6
LOCAL MARTIN COUNTY (MC)	ITY (MC)		
MC - 1	6-15-2012	I understand that there are financial and time constraints on the initial segment of Central Everglades Planning so present plans do not include considering the Lake releases that now go into the estuaries. But I am hopeful that in the future we will incorporate systems in our planning to conserve will incorporate systems in our planning to conserve these billions of gallons of fresh water now being sent to tide. This is freshwater that can be used to rejuvenate our aquifers and rehydrate the Everglades. Hope we will design the system to flow south up to 10,000 cfs, so that there rudy will be a way to protect our estuaries. In addition to having as an eventual objective a significant southern flow from the Lake, I encourage us to actually move water south every opportunity we get. Not just consider the possibility during energencies, but make moving water south part of the regular routhine, even if it is just a few cfs.	The construction of a Flow Equalization Basin on the A-2 property will capture approximately 200,000 acre-feet on average annually of water that would be released into the northern estuaries and send it through the FRB into WOA 3. While this provides a minor benefit to the northern estuaries, it is 200,000 acre-feet less water being released into the estuaries compared to the no action alternative.

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MC - 2	12 – 17-2012	It is so heartening that Army Corps is listening to our plea to protect the Estuary from Lake Okeechobee releases. We all recognise that 200,000 acre/feet is just a beginning, but it is a strong, positive beginning. There is no magic, it will take vast complex planning and significant funding. But now, Army Corps has embarked upon a path that can eventually lead to a solution; a solution requiring perseverance and continued dedication of us all to achieve.	Thank you for your comment.
CITY OF CORAL GABLES (CG)	.GABLES (CG)		
CG - 1	6-15-2012	As of May 8, 2012, legislation pertaining to supporting CEPP for the restoration of the Central Everglades was adopted.	Thank you for your comment.
ARTHUR R. MA	VRSHALL FOUND	ARTHUR R. MARSHALL FOUNDATION & FLORIDA ENVIRONIMNETAL INSTITUTE (AM)	
AM - 1	1-21-2012	Re-connection of Lake O with WCA-3 is key to the Art Marshall vision of restoring sheet-flow from Kissimmee Basin to FL Bay. More Adaptive Management (AM) approaches are needed in this process. We appreciate the "enhanced public inclusion".	/
AM - 2	2-2-2012	Reduced surface waters in South Florida are a major cause of the effect of decreased rainfall and resulting drought, discussed this with CEPP pDT Jan 31. Full understanding of the rainfall cycle is critical for CEPP alternatives.	Regional hydrologic models were used during plan formulation for the CEPP. These models provide daily, detailed estimates of thydrology across the 41-year period of record (January 1965-December 2005) and are used to evaluate the systems response to project alternatives by simulating major components of south Florida's hydrology including evapotranspiration, infiltration, overland and groundwater flow, canal flow, canal-groundwater seepage and current or proposed water management control structures and operational rules.
AM - 3	2-2-2012	The optimum approach to CERP/CEPP and restoring what was a much wetter Everglades, is to restore a massive amount of surface water in the form of Dynamic Storage and Sheetflow. Circumstantial proof – Kissimmee River Restoration results.	Thank you for your comment and information. Throughout the plan formulation different management measures have been assessed in order to meet the objectives of CEPP as well as the constraints. The first array of alternatives ranged from as passive as possible to highly engineered.

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		Precaution of NRC Peer Review Committee - Avoid	
		engineered solutions where possible.	
AM - 4	3-15-2012	This is a follow up to the Marshall Plan vision and related documents. We recognize that this Marshall	Thank you for your comment.
		Plan may be a bit aggressive for CEPP increment 1,	
		however, we think it's important that we keep our	
		eyes on the prize of long-term vision, as CEPP	
		interim goals and objectives are developed,	
		consistent with CERP Table 5-1.	
AM-5	3-8-2013	We appreciate the CEPP PDI aggressive approach to	Regarding the question of how multiple factors will be integrated for
		adaptive management (AMI); extensive reference to	decision makers; the CEPP Adaptive Management and Monitoring
		the CERP Adaptive Management Integration Guide	Plan (AM and Monitoring Plan) specifies that data will be provided to
		(AMIG) dated March, 2011; and the production of	agencies, and if the data suggests that an improvement could be
		the extensive monitoring matrix (Monitoring Matrix)	made for CEPP then such suggestions will be provided as well. It is
		passed out at the Feb 25 CEPP Meeting and updated	important that the agencies consider the multiple factors; a method
		at CEPP PDT Meeting March 5, 2013. These written	of synthesizing or "rolling up" the information is not dictated in the
		comments are a follow-up to ArtMarshall.org verbal	AM and Monitoring Plan. However the scientists will continue to
		comments made March 5, 2013.	provide data as understandably as possible, such as in formats of the
			ongoing System Status Reports
		A Big question remains regarding the Monitoring	ww.evergladesplan.org/pm/ssr_2009/ssr_main.a
		Matrix and other factors: How to integrate	CERP Scientific Knowledge Gained document
		multivariate requirements (targets) and the	(http://www.evergladesplan.org/shared-definition/sd_2010.aspx),
		measurement of same, and synthesize for decision	and the Stop Light Indicator Reports
		makers. In the March 5 CEPP PDT proceedings, the	(http://www.sfrestore.org/documents/Final System-
		Top-Down approach folks (Generalists) appeared at	wide Ecological Indicators.pdf) We will continue to seek ways to
		odds with the Bottom-up approach folks (need to	make the complex data of Everglades restoration accessible and
		consider more details) with the latter group asking	understandable for decision makers and interested parties.
		for more time to solve the puzzle. Here, stasis is a	
		fleeting thing.	Regarding the comment on PDT meeting preferences for a top-down
			vs. bottom-up presentation of the AM and Monitoring Plan, the full
			detailed plan is included in the CEPP PIR document for review (Annex
			D) for those who want all details.
AM-6	3-8-2013	Section 3 and Appendix D of the AMIG call out a	Regarding Activity 2 and the monitoring matrix: The matrix was
		variety of activities in the AM process to be	intended to summarize RECOVER's monitoring programs and how
		undertaken by the PDT as follows:	they may help to address the items discussed in the adaptive
			management portion of the AM and Monitoring Plan. The items

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		Activity 2: Establish / Refine Yellow Book de-	discussed in the adaptive management portion were subjected to
		scription of Goals & Objectives [CERP Table 5-1]	screening, described in the PDT presentation and in the PIR Annex D.
		Activity 4: Use conceptual ecological models	Items that cannot be addressed with adaptive management actions in CEDP (curb as operational adjustments or testing) were creamed
		(CEM), to develop testable hypothesis, and tar-	out of the AM Plan. Screening out items did not indicate a lack of
		gets that reflect defining characteristics of the	importance of the items, but rather a lack of ability to perform
		systems to be restored.	adaptive management to address the items. There are not
		Activity 5: Continue consideration of CERP Yel-	operational adjustments or other adaptive measures that could be
		low Book Goals & Objectives;	taken to increase the spatial extent of CEPP and therefore a question
		Evaluate benefits Include management options matrix	about this may have been screened from the adaptive management portion of the plan despite its overall importance in CERP.
		and costs	Regarding Activity 4: Available Conceptual Ecological Models have
		Activity 6: Monitoring; Develop project level	been used in CERP and CEPP to identify problems, opportunities,
		monitoring plan; identify costs, decision-criteria	goals, objectives, performance measures, and monitoring questions
		[benefits]	during the project study and in the development of the AM and
		Activity 7: Assessment: synthesize results	Monitoring Plan. Since a CEM for the central part of CEPP is not
			available, scientific and local knowledge were used in lieu of
		Closer adherence to AMIG activities would improve	developing a new model.
		the effort and provide better overall decision-	December Activity 5. The monitoring matrix was not intended to
		support. Specifically:	provide any information about project bonefits. Desiret parts and
		Regarding AIMG Activity 2: While earlier CEPP	provide any information about project benefits, ribject costs and benefits have been discussed in several PDT meetings with
		PDT activities put potential CEPP achievements	presentations publically available. The dollar value of ecosystem
		in context of meeting CERP Yellow Book Goals	services associated with CEPP is being calculated as a case study; a
		& Objectives in CERP Table 5-1, the Monitoring	separate and parallel effort to the CEPP process for choosing a TSP.
		Matrix falls short of addressing all objectives in	The results of the ecosystem services case study will be provided as
		a balanced manner, e.g., addressing the extent	soon as possible, but are not being used to select or influence the
		to which spatial extent is increased. An Appen-	selection of the CEPP TSP. The Ecosystem Services report will be
		dix to this report amplifies.	provided separate from the Draft PIR/EIS after it has been through
		Regarding AIMG Activity 4: There is no regional	מוכ וכמות לו מכניים
		CEM for the CEPP region under consideration.	Regarding Activity 6: The matrix was only intended to summarize
		Performance measures and targets were devel-	RECOVER monitoring and CEPP's adaptive management questions.
		oped using CEM's from other regions and a To-	There was no intention to discuss or provide cost/benefit
			information in this matrix. Please see previous responses here.

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		tal CEM. Thus a hypothesis that the pond apple	
		forest existed and provided habitat and func-	Regarding Activity 7: Concur with the usefulness of this type of
		tional value including significant uptake of nu-	synthesis. This information is provided in Section 6 of the CEPP PIR document. Benefits are not monetized in the USACE TSP selection
		Regarding AIMG Activity 5: The "Benefits" word	process for ecosystem restoration projects. It is possible in the
		has been used extensively, and options matrix	inture that USACE may consider ecosystem services benefits as part of its TSP selection process for future projects, but many factors
		with costs have been developed, however no	need to be considered to develop formal implementation policy by
		dollar value has been put on benefits, yet, so as	the agency. The Ecosystem Services report will be provided separate
		to provide a Benefits/Cost ratio, arguably the	from the Draft PIR/EIS after it has been through the review process.
		most important piece of info that could be pro-	
		vided to a decision-maker. The monitoring ma-	
		trix does not provide this info. Benefits in dol-	
		lars would best be provided by an Ecosystem	
		Services Valuation (ESV) of the CEPP Tentatively	
		Selected Plan (TSP), as briefed in an earlier	
		CEPP meeting. Presentation of more info earli-	
		er on the ESV of the CEPP TSP would serve	
		stakeholders and decision-makers.	
		Regarding AIMG Activity 6: Benefits/Cost Crite-	
		ria are not included in the Monitoring Matrix,	
		and only appear rhetorically in previous CEPP	
		meetings; Activity 5 and Activity 7 comments	
		apply.	
		Regarding AIMG Activity 7 on the call for syn-	
		thesis (an often heard call in the CERP/CEPP	
		process); As an extension of Activity 5 com-	
		ments, the best synthesis possible would be the	
		calculation of total benefits (B) and total costs	
		(C), including projected life-cycle O&M costs.	
	****	The resulting B:C ratio provides an indicator of	
		return on investment and the extent that the	

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		system has been optimized per the following	
		statement: Maximize benefits while minimizing	
		costs, long term. One observation: The more	
		folks see the B:C synthesis, the more comforta-	
		ble they are with it, especially for analysis of al-	
		ternatives, as required by CERP Section 7.5.3.	
AM-7	3-8-2013	Consideration of USACE Engineering Circular EC	Sea Level Rise (SLR) is addressed for the TSP in the Draft PIR/EIS in
		1165-2-212 dated 1 Oct 2011. EC 1165 states:	Section 6 and Annex I. A full analysis of SLR on CEPP and the effect
		"Impacts to coastal and estuarine zones caused by	of SLR on the expected benefits are located in Section 6.11.1.3 and
		sea-level change must be considered in all phases of	Annex 1.
		civil works programs". However there has been no	
		visible consideration of the projected impacts of	During the preliminary evaluation of CEPP ecosystem services the
		sea-level rise, nor consideration of the benefits of a	team could not find a viable means to consider CEPP as a counter-
		rapidly executed CEPP implementation, as counter-	measure to SLR. The team will seek further information on this
		measure to Sea Level Rise (SLR). Failure to consider	during their draft revisions. The Ecosystem Services report will be
		the dollar value benefits of CEPP implementation as	provided separate from the Draft PIR/EIS after it has been through
		a counter-measure to SLR could result in an	the review process.
		oversight in calculating the ESV of the CEPP TSP.	
		Regarding the lack of discussion of SLR in CEPP	In order for items to be included in the CEPP's Adaptive
		proceedings, it is a puzzlement how about 10	Management Plan, they must have project management options
		member of the CEPP PDT and a quorum of the	that can be reasonably tested and/or adjusted to improve
		Science Coordination Group/Working Group could	restoration performance. Please see the screening criteria provided
		be involved in a Feb 14-15, 2013, "Technical	in Annex D.
	•	Meeting" addressing SLR in detail, sponsored by	
		FAU, yet avoid SLR discussion in CEPP PDT	
		proceedings. As noted in verbal comment March 5,	
		there are a number of consequences not to have	
		SLR on the table. One occurred when a PDT	
		Member representing agriculture, announced that	
		he was going to be blunt, then stated CEPP may not	
		meet institutional requirements established in CERP	
	•	2000, or words to that effect. With due	
		appreciation for the business of Ag, a blunt	
		response made in public comment is that we are	
		not in a business as usual scenario. A regression to	

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		the 2000 scenario is a de facto abandonment of	
		adaptive management. The National Research	
	•	Council Peer Review Panel has taken the strong	
		position that climate change and sea level rise are a	
		good reason to speed up the [CEPP] process, rather	
		than proceed in business as usual fashion. SLR is	
		arguably the best reason for engaging the AM	
		process. More on this in future meetings.	МОДИЛЬНИК В ВИДИНИКИ В
AM-8	3-8-2013	Cost-Effectiveness and Cost-Benefit terminology.	Cost effective/incremental cost analysis (CE/ICA) is used to evaluate
		These terms were mentioned in the context of	and compare the production efficiency of alternatives, thus
		being equivalent per the March 5 statement,	identifying plans that reasonably maximize ecosystem restoration.
		paraphrased: We have done the cost-benefit	Cost effectiveness analysis begins with a comparison of the costs and
		analysis and determined the cost-effective	outputs of alternative plans to identify the least cost plan for every
		alternatives. (Alt 1 and Alt4). The CERP Cost-	level of output considered. Alternative plans are compared to
		Effectiveness and Incremental Cost Analysis	identify those that would produce greater levels of output at the
		approach is outlined in CERP Section 7.5.3. March 5	same cost, or at a lesser cost, as other alternative plans. Cost
		Public comment included a request for clarification	effective plans are then compared by examining the additional
		of the use of these terms. The public comment view	(incremental) costs for the additional (incremental) amounts of
		was that cost-benefit, better termed Benefit/Cost	output produced by successively larger cost effective plans. The
	•	(Benefit divided by Cost to determine the B:C ratio),	plans with the lowest incremental costs per unit of output for
		had not been determined, yet; also that it would	successively larger levels of output are the best buy plans. Costs are
		come in the form of an Ecosystem Services	based initially on a rough order of magnitude and include pre-
		Valuation (ESV) of the CEPP Tentatively Selected	construction engineering and design and construction costs, interest
		Plan. At the March 5 CEPP PDT meeting, a PDT	during construction, as well as recurring operations and
		member noted that there had been very little cost	maintenance costs. Benefits are based on the habitat unit
		data provided. An earlier public comment noted	evaluation. Alternatives 1 and 4 were identified as being cost
		that the CEPP Analysis of Alternatives did not	effective. Alternatives 2 and 3 were both more costly than
	****	appear to consider Operations and Maintenance	Alternative 4 and provided fewer overall habitat units. Alternatives
		(O&M) Costs, long term. Per PDT protocol, there	2 and 4 were not cost effective. The ecosystem services evaluation
		was no further discussion or clarification on the	will be conducted only on the recommended plan. The Ecosystem
		public comment questions raised.	Services report will be provided separate from the Draft PIR/EIS after
			it has been through the review process.
AM-9	3-8-2013	Summary: The Monitoring Matrix in effect, is a	The monitoring matrix was not intended to list CERP objectives,
		multi-decision criteria approach, the results of	habitat units, or targets. Please see discussion of this above.
		which may be difficult for Top-Level decision makers	
		to integrate (17 factors) in evaluating the success of	to integrate (17 factors) in evaluating the success of Discussion of Sea Level Rise in relation to CEPP is provided in Section

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		the project, as noted in the Appendix, the Monitoring Matrix does not include many other CERP Objectives, and extensive habitat unit approach (HUA) data. This has the potential of undermining the effort. More consideration of CERP Table 5-1 Goals & Objectives and other Activity called out by the CERP AMIG, would be helpful in clarifying matters for a decision-maker including the extent to which CEPP provides a counter-measure to Sea Level Rise. Since not all "targets" have been considered in the Monitoring Matrix, addition to the 17 elements of the Matrix may make integration of the success outcome even more difficult. The best synthesis for a decision-maker would appear to be the total dollar Benefits to total dollar Cost ratio (BC = B/C) as a means of measuring return on investment in a synthesis that CEPP DTS PASAP, as a matter of education and an indication of success that will sell the program on its own merit. These comments will be subject to final edit following the next CEPP DT Meeting, any feedback from this input, and a preparation for future comments in the CEPP comment process.	6.11.1.3 and Annex I. The CEPP evaluation of ecosystem services is a separate and parallel effort to the TSP selection process and will not influence the selection of the TSP. The results of the evaluation will be provided in a separate document than the PIR/EIS after it has gone through a separate review process.
EVERGLADES C FEDERATION *N	OALITION: AU	EVERGLADES COALITION: AUDUBON FLORIDA*EVERGLADES FOUNDATION*EVERGLADES LAW CENTER*CL FEDERATION *NATIONAL PARKS CONSERVATION ASSOCIATION *NATURAL RESOURCES DEFENSE COUNCIL (EC)	EVERGLADES COALITION: AUDUBON FLORIDA*EVERGLADES FOUNDATION*EVERGLADES LAW CENTER*CLEAN WATER ACTION *FLORIDA WILDLIFE FEDERATION *NATIONAL PARKS CONSERVATION ASSOCIATION *NATURAL RESOURCES DEFENSE COUNCIL (FC)
EC - 1	6-1-2012	We're concerned that some of the agriculture community is suggesting that CEPP must "make up" for irrigation water lost due to implementation of LORs. It's critical that the focus of CEPP remain on environmental restoration objectives, while maintaining protection for water users.	The objective of CEPP is to send more water south from Lake Okeechobee to WCA 3 that would otherwise result in regulatory releases to the northern estuaries, while operating within zones above the baseflow zone of LORS. CEPP will maintain the current level of water supply for LOSA users under the 2008 LORS.
EC-2	6-1-2012	We ask that the Corps and SFWMD reiterate a	The construction of a Flow Equalization Basin on the A-2 property

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	Received	commitment to ensuring that CEPP results in meaningful restoration of the heart of the Everglades by sharpening the focus on restoration and increased water for the ecosystem. Thank you for your tremendous vision and hard work.	will capture 200,000 average annual acre-feet of water that would be released into the northern estuaries and send it through the FEB in WCA 3. While this provides a minor benefit to the northern estuaries, it is a step forward to reducing flows to the estuaries and it is 200,000 acre-feet of new water being sent to the Everglades.
EC-3	11-13-2012	CEPP must take a clear step toward restoration. We are heartened to see that CEPP PDT has identified about 200,000 acre-feet of new water to be delivered to Central Everglades. However, for CEPP to meaningfully advance restoration and achieve ecological benefits, the plan must increase ecological connectivity and water conveyance between ENP and WCA 3A and 3B. Partial removal of L-29 levee represents the clear step forward needed to show progress. Full restoration of sheetflow for WCA 3A through 3B and into ENP is the ultimate goal, but it is understood that seepage issues constrain our ability to implement such restoration in one complete iteration. Given these concerns, it is vital that the CEPP include phased and/or locally preferred alternatives that will provide interim benefits while additional restoration components, including the authorized elevation and bridging of Tamiami Trail and other projects, come online.	The Corps supports reconnecting WCA 3A, WCA 3B and ENP as a functioning component of the Everglades ecosystem. Implementation of Alternative 4R2 would include three gated structures in the Lef7 A levee, spoil removal along the west side of the Lef7 A Canal in the proximity of the Lef7A gated structures, construction of an ~ 8.5 mile levee in WCA 3B connecting the Lef7 A levee to the L-29 levee; and removal of ~ 8 miles of the L-57 clevee and ~ 4.3 miles of the L-29 levee in the Blue Sharty flowway. Alternative 4R2 also includes construction of the western 2.6 mile Tamiami Trail bridge. An implementation plan for the TSP has been developed and is included in Section 6 of the CEPP Project PIR and EIS.
EC-4	11-13-2012	CEPP must remain focused on ecological benefits. The CEPP process and robust stakeholder participation workshops have allowed for unprecedented dialogue and feedback. We acknowledge the effort required to be inclusive and applaud the PDI's engagement efforts, but want to emphasize that it is not possible for CEPP, nor any other single project in the full CERP. It is absolutely essential that CEPP achieve key restoration benchmarks of rerouting flow into NESRS. To do	Management measures and alternatives for the CEPP were formulated and evaluated based on achievement of project objectives. Project objectives identified for the CEPP are consistent with cross of CERP. Section 601 (h) of WBDA 2000 (authorizing CERP) states "the overarching objective of the Plan is the restoration, preservation, and protection of the South Florida ecosystem while providing for other water-related needs of the region, including water supply and flood protection. Project objectives are included in Section 1 of the CEPP Project PIR and EIS.
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		this, the TSP must be selected based on its ability to	
	****	achieve the following CEPP goals outlined in the	
		December 2011 scoping:	
		 Restore habitat in the central Everglades, 	
		focusing on the "river of grass"	
		Deliver "new" sources of clean water to the	
		central Everglades and ENP, and	
		Reduce damaging discharges to east and	
		west coast estuaries	
EC-5	11-13-2012	Compatibility with CERP. We understand that the	Implementation of Alternative 4R2 would not include the
		features of CEPP"s first increment are constrained	construction of additional pump stations on the L-29 levee. During
		by deferral and state appropriations, and appreciate	plan formulation, construction of pump stations on the L-29 levee
		the tremendous effort by the PDT to move their	was proposed as part of Alternative 3. Alternative 3 was not
		planning effort forward expediently. Given these	identified as the TSP. Implementation of Alternative 4R2 is
		limitations, it becomes even more critical to ensure	compatible with future increments of the CERP. Alternative 4R2 also
		that CEPP alternatives create opportunities for	includes removal of a portion of the L-4 levee west of S-8, and
		sheetflow that can be explained in future CERP	backfilling the Miami Canal from ~1.5 miles south of S-8 to I-75
		efforts rather than creating an even more managed	thereby reestablishing sheetflow in northern WCA-3A,
		Everglades ecosystem by installing more pumps and	
		other infrastructure.	
EC - 6	11-13-2012	Environmental groups have a common vision for the	Construction of the ~ 8.5 mile levee in WCA 3B connecting the L-67 A
		first iteration of central Everglades restoration,	levee to the L-29 levee would be constructed in accordance with
		supported by numerous recreational stakeholders.	USACE Engineering Design and Levee Safety Criteria and consistent
		This vision includes bridging the Tamiami Trail,	with design criteria jointly developed by the SFWMD and the Corps.
		decompartmentalizing WCA-3A, WCA-3B, and	
		NESRS in ENP, and completely degrading the L-29	
		along the bottom of WCA-3B. Implementation of	
		this vision includes a temporary berm along the	
		existing "Blue Shanty" canal alignment as a	
		construction phase which would be removed	
		following the completion of the Tamiami Trail	
		improvements and other projects,	
EC7	11-13-2012	We believe that a temporary Blue Shanty berm is a	Please see response to comment EC-6 above. Construction of the "
		cost effective way to utilize existing canal and berm	8.5 mile levee in WCA 3B connecting the L-67 A levee to the L-29
		features in SW WCA-3B and ENP to achieve near-	levee would be constructed in accordance with USACE Engineering

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		term benefits and "train" the River of Grass through	Design and Levee Safety Criteria and consistent with the design
		two gated structures to be installed along lower L-	criteria developed jointly by the SFWIMD and the Corps. The Corps
		67A during an initial CEPP phase. This feature is	concurs that construction of the levee in WCA 3B would provide a
		intended to allow for restoration of sheetflow, the	means to reconnect WCA 3A, WCA 3B and ENP.
		creation of ride/slough habitat, and fishery	
		improvement through marsh connectivity and	
		should not be interpreted or designed as a flood	
		control structure.	
EC - 8	11-13-2012	We remain committed to assisting in this process	Thank you for your comment.
		and to helping ensure increased water flows to the	
		central Everglades, relief to the northern estuaries,	
		and ecological benefits for America's Everglades.	
		We look forward to working with you in this	
		ambitious endeavor and invite any questions or	
		comment you may have.	
EC-9	12/27/13	The Everglades Coalition has previously supported	Thank you for your comment.
		Central Everglades Planning Project (CEPP) goals to:	
		1) restore habitat in the central Everglades, focusing	
		on the "River of Grass": 2) deliver "new" sources of	
		clean water to the central Everglades and	
		Everglades National Park (ENP): and 3) reduce	
		damaging discharges to the east and west coast	
		estuaries,	
		Removal of the L-29 along the bottom of WCA-3B is	
		consistent with long term restoration goals and	
		represents a clear step forward in Everglades	
		restoration as it removes a barrier to sheet flow and	
		will improve fishery conditions.	
		Alexanderic A is the control of the	
		Alternative 4 is the only alternative in CEPP which	
		will begin more natural flow into Water	
		Conservation Area (WCA) 3B and ENP, re-establish	
		ridge and slough topography, and improve	
		ecological connectivity, all of which are priority	
		tenets of Everglades restoration.	

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		Restoration of the Everglades should not significantly increase the footprint of levees in sensitive wetlands.	
		Restoring the natural flow path of the Everglades, as proposed in Alternative 4, will reduce soil oxidation and loss in WCA 3B, increase biological connectivity, improve the mosaic of landscapes essential to the food chain, and provide more corridors and habitat for fish and wildlife.	
		THEREFORE BE IT RESOLVED that the Everglades Coalition supports CEPP Alternative 4, with the WCA 3B river training structure implemented with a minimal footprint, as the best alternative for the environment. The Coalition requests that it be designated the Tentatively Selected Plan in the Project Implementation Report because it most comprehensively and meaningfully advances restoration goals, achieves ecosystem benefits, and increases ecological connectivity and water conveyance between ENP and Water Conservation	
FLORIDA WILDI	FLORIDA WILDLIFE FEDERATION (FWF	Areas 3A and 3B.	
FWF - 1	6-4-13	The Florida Wildlife Federation respectfully requests the South Florida Water Management	Thank you for your comment.
		District Governing Board to re-affirm the District's role as local sponsor of the Central Everglades Planning Project (CEPP), which is	
		curreinty being developed by the U.S. Army Corps of Engineers with District support. The CEPP has proposed an array of projects in its. The CEPP has proposed an array of projects in its Alternative 4-R that, together with the District's and Governor Scott's Everglades Water Strategies.	

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		program, will move significant amounts of fresh	
		water into Shark River Slough, the core of	
		Everglades National Park. With these projects	
		and the already commenced Picayune Strand	
		restoration projects on the west and the C-111	
		spreader canal moving water into Taylor Slough on	
		the east, the state and federal governments will	
		secure the future of the park and revitalize a large	
		portion of the historic "River of Grass" through	
		Water Conservation Areas 3 A and B.	
FWF - 2	6-4-13	Specifically, we are asking SFWMD Governing	Thank you for your comment.
		Board to take such formal action as is necessary to	
		permit release of the ACOE's Draft Project	
		Implementation Report (PIR) for the proposed	
		Tentatively Selected Plan, Alt.4-R. Release of the	
		PIR will start compliance reviews under the	
		National Environmental Policy Act and formal	
		public comment, as modeling and refinements	
		continue to address remaining concerns. Taking	
		action now provides sufficient time to ensure	
		that a Chiefs Report can be submitted to	
		Congress by December 2013, making CEPP	
		projects eligible for Congressional authorization	
		under the Senate-passed Water Resource	
		Development Act (WRDA). It is not possible to	
		predict when the House will take up a WRDA	
		bill, it would be politically foolish, however, for	
		us in Florida not to make every attempt to meet	
		the Senate's conditions and deadline for the next	
	•	WRDA bill.	
		Urging Congressional authorization for CEPP	
	•	projects is not to say that other projects such as	
		the Caloosahatchee and St. Lucie reservoirs,	
		Broward Water Preserves, Biscayne Bay Coastal	
		Wetlands should be sidelined. All of us are aware of	

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		the enormity of the restoration laid out in the	
		Comprehensive Everglades Restoration Plan, of	
		which CEPP is a component. It is that enormity and	
		its potential rewards that make Everglades Restoration" worth implementing.	
FWF-3	6-4-13	Florida Wildlife Federation's message is that we	Thank you for your comment.
		are still in "a process" and, at this point in that	
		process, all of us should push forward to obtain	
		Congressional authorization for CEPP projects. By	
		statute and court orders, the District and its	
		taxpayers have incurred an obligation to meet	
		water quality standards; formally agreeing to the	
		role of "local sponsor" for CEPP does not add to	
		that obligation. Long term, implementing the	
		projects proposed may make achieving those	
		standards easier. If the Governing Board feels it	
		needs an "escape clause," the process builds one	
		in: the Project Construction Agreement. Prepared	
		after design, the PCA spells out responsibilities	
		for the costs of construction, operations and	
		maintenance. You are NOT now being asked to	
		sign a PCA.	
FWF - 4	6-4-13	The Comprehensive Everglades Restoration Plan	Thank you for your comment,
		was adopted unanimously by the Florida	
		Legislature in 2000, which also designated the	
		South Florida Water Management District to be the	
		state's "local sponsor." The plan also was	
		adopted by Congress, winning every vote save	
		that of one senator. At that time, it was	
		anticipated that implementation would take thirty	
		years to complete. As we approach the half-way	
		point, the Federation urges all to continue	
		moving forward to full implementation.	
PUBLIC			
Jack Moller	3-8-2012	At yesterday's meeting you stated the ACOE flow	It is not essential to have extremely high water depths when trying
(JM) - 1		rate goal in the WCAs, Central Everglades, is to	to facilitate high flow rates. The CERP "goals are to restore

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		obtain a 2.5 to 3.5 cm/sec flow for four weeks a year. What water depth in the WCAs will allow this flow rate to be obtained?	hydroperiods and sheetflow, not a particular flow velocity. These flow numbers are not CEPP targets because these have not been vetted through the RECOVER PM evaluation process. However, the design of the CEPP will strive to restore enough sheetflow to move the buoyant sediments ("floc") out of the sloughs and onto the ridges and, at the same time, not create an environment where the water depths get high enough to damage tree islands.
JM - 2	3-11-2012	Also, isn't 1.5 to 2 miles a day a bit fast for water to flow in the Everglades? This is what your goal of a few cm/sec converts to.	Again, this flow rate is not a goal. It is a short-term characteristic of sheetflow, and yes, 1.5-2.0 miles a day is fast for the Everglades, but probably essential for at least a few days, to entrain sediments and move them onto ridges.
JM - 4	3-11-2012	What new science, besides Dr. McVoy's work, has been found that verifies the pre-drainage flow rate of water in the Everglades was 1.5 miles per day or more? I heard you said to reach this 1.5 mile/day flow rate you only needed to increase the water volumes by 40%. What well this increase make the water depths in the Everglades become? Where do you measure the flow rate at?	There are numerous references that indicate that these flows are needed today to reverse current soil elevation changes on tree islands, ridges, and sloughs. A partial list of references from the Decomp Physical Model Science Plan is provided here. This list contains references for published, independently refereed scientific journal articles (the highest level of scientific review). Additional supporting references are listed at the end of this response document; those references have been vetted in extensive CERP and public forums. There are no flow-monitoring stations in the ridge & slough habitats of the Everglades. Flows are calculated by computer models within indicator regions that have been established by RECOVER. The CEPP team will use computer models to answer you question concerning water volumes because we also want to make sure that water depths will not become excessive and that flows are measured correctly. Keep in mind that although the historic system probably had up to 40% more water, we do not anticipate that this project will provide the historic volume of water. CEPP will formulate and evaluate plans for a first increment of additional flows of water to the natural system. Please also keep in mind that CEPP does not want to create water depths that will damage tree islands. Determination of what the appropriate first increment of water flows into the natural system is the purpose of the CEPP study.
JM - 5	3-11-2012	Since the Everglades has few sloughs today and the old sloughs have non-slough vegetation in them	When the CEPP team talks about "sloughs" they are referring to the natural, linear waterways that water follows to move south through

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		how will this affect the flow rate of the water once you are able to push the desired amount of water into the Everglades?	the Everglades. A more extensive response is available upon request (letter 3-26-2012).
9 - MI	3-11-2012	Will this vegetation cause the flow rate to be reduced until all this nonslough vegetation is killed by drowning?	The goal of CEPP is to recreate natural sloughs (described in previous answer). Yes, there will be some vegetation transition over time. A more extensive response is available upon request (letter 3-26-2012).
JM - 7	3-11-2012	Will this vegetation problem create a need for more water to be pushed into the Everglades, at least until these old sloughs are reestablished?	The goal of putting more water in the Everglades is based upon the need to prevent peat oxidation and fires. A more extensive response is available upon request (letter 3-26-2012).
JM - 8	3-11-2012	If this is so what will be done to protect the islands and uplands? What will be done to prevent the hardwoods, which include willows, from being drowned? I am sure you know protection of these Everglades resources was approved by a vote of the Sustainable — to do no harm to the island, hardwoods (which includes the willows).	You concerns are understood and will be considered throughout the CEPP process. However, it is critical that you understand that we want to protect tree islands and even make efforts to bring some back. But willow has overtaken northern WCA3A and is not indicative of a healthy vegetation mosaic in that ware.
6 - WI	4-19-2012	Water depth issues have not been adequately addressed. More water in the Everglades will lead ton ouplands and drowned wildlife. Questions: 1. What is the frequency of flooding the Everglades; will you have to flood them multiple times a year, once a year, or every other year to read your desired goals of 40% more water to creat your desired goals of 40% more water to create an unnatural flow rate in the Everglades? 2. What is length of time for each flooding in the Everglades? 3. What is the water depth at its max depth when you obtain the desired 40% more water to increase an increase flow rate and how long will this depth have to be maintained to allow you to obtain your desired performance measure? 4. How much material will this flow rate move	The objectives of CEPP to enhance ecological values include to restore seasonal hydroperiods and distribution, to improve sheetlive patterns and surface water depths and durations, and to restore more natural water level responses to rainfall (for additional detail, reference Section 01 of the CEPP PIR). CEPP alternative configurations were developed to reduce the drainage effects from Miami Canal in the northern portions of WCA 3A and restore more sheetlive across the northwest portions of WCA 3A. The Miami Canal causes water levels in northern WCA 3A to recede well below the ground surface for long periods of time, which has resulted in extensive and documented losses of peat soils from oxidation and muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 34f in some areas. Alt AR2 proposes to reverse the continued degradation of this area by backfilling a portion of the Miami canal north of I-75 to remove its drainage effects, re-distributing inflows through removal of approximately 2:9 miles of the south L-4 levee and increasing water flow into WCA 3A during the dry season. Water levels and durations within WCA 3A during the dry season. Water levels and durations within WCA 3A
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LETTER		AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		5. How will you and we know when you can stop flooding the Florida Everglades and what are the bench marks being sought by these floodings of the Florida Everglades?	were implemented, consistent with the variability in rainfall, hydrologic conditions, and operations within the upstream basins (Lake Okeechobee, EAA, WCA 1, WCA 2). Generally, water levels in northern WCA-3A will stay above ground surface for longer and the depth and duration of the wet-season water levels will increase. The water level changes anticipated with implementation of Alt 4R2 are conducive to restoring a portion of the wetland hydrology that was losts as a result of the drainage effects from the construction of the Miami Canal through the marsh in northern WCA-3A. Details regarding the expected water level changes can be found in Section 5 and 6 and Appendix C.2.1 and C.2.2.
			In general, with implementation of Alt 4R2, water levels in Northwest and North Central WCA-3A are predicted by the period of record modeling results to remain above ground surface throughout the year to reduce continued soil oxidation and invasion of woody vegetation, significantly reduce the susceptibility of that area to risk of muck fire and beginning to restore the rigge and slough landscape that was evident in the western portion of this area in the 1940s. Water levels in the northeastern portion of this area in the 1940s the POR modeling to remain conducive to maintaining the savgrass plains in this area that were also evident in the 1940s Central WCA-3A will remain similar to today's condition, and water levels and durations in southern WCA 3A will be slightly reduced due to the increased outlet capacity (to WCA-3B and the expanded 5-333) included in Alt 4R2.
JM - 10	10-22-2012	Email saying: See the attached and consider what was said in today's meeting and who is in control of this massive public works project called CRP, with 4 attachments of articles titled: "Big Sugar does not like NAFA, Fanju's, Monica and Clinton.doc, Fanjul on the phone while Clinton gets it from Monica. doc, The Washington Post reports on Clinton and Moica & Fanjul.doc, and to sherry with the Fanjul – Clinton connection.doc"	Thank you for your comment.
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JM - 11	10-22-2012	Attached to his email was information taken from Thank you for your comment and information. the book EAA on water, soil, crops, and environmental management by Bottcher. The page (30) talks about much and pear.	Thank you for your comment and information.
JM - 12	10-22-2012	Email subject: another Fed. map showing sawgrass plain in WCA3N http://sofia.usgs.gov/publications/ofr/2004- 1448/images/fig2x.gif	Thank you for your comment and information. This map is consistent with the objectives of CIPP to restore seasonal hydroperiods and distribution, to improve sheetflow patterns and surface water depths and durations, and to restore more natural water level responses to rainfall and reduce the drainage effects from Miami Canal in the northern portions of WCA 3A. The Miami Canal causes water levels in northern WCA 3A to restore the ground surface for long periods of time, which has resulted in extensive and documented losses of peat soils from oxidation and muck fires and resultant lowering of the ground surface elevations in morthern WCA 3A by up to 3-ft in some areas (refer to Section 1.2 for additional details on problems to be addressed by CEPP).
JM - 13	10-22-2012	Email subject: another water vs. tree islands doc. http://www.evergladesplan.org/pm/pm_docs/ertp/022511_ertp_v2_app_a.pdf	Thank you for your comment and information.
JM - 14	10-22-2012	Email subject: another water vs. tree islands doc. http://www.evergladesplan.org/pm/pm_docs/ertp/ O22511 ertp_v2_app_a.pdf	Thank you for your comment and information.
JM - 15	10-22-2012	photo of building with stairs -(http://sofia.usgs.gov/publications/circular/1182/b uildingsub.iona This building at the Everglades Experiment Station was originally constructed at the land surface; latticework and stairs were added after substantial land subsidence.	Thank you for your comment and information.

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Pertinent Correspondence Information

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JM - 16	10-22-2012	Fmail subject: The Tree Islands are Predrainage chttp://www.doole.com/url?a=g&crt=i&g=nap&2 Go%20tree%20islands%20in%20the%20wce=web&cd= 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fclic.c 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fclic.c 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fclic.c 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fclic.c 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fclic.c 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fclic.c 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fclic.c 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fclic.c 92&ved=OCCYQFia8OF6&vurl=http%3A%2E%2Fixed 9U5DdA 4M25AW4vlBA&usg=AFQiCNOPclwPS1iv6ISpmefReff qU15DdA> chttp://webcache.googleusercontent.com/search?q ==cache.i6c 4W25DnW0ic:dic.cses.vt.edu/soils/write/posters/C 1vm Coultas%252OFixed %252OTree%252OIslands%252OD-ppt+map+of+tree+ islands+in+the+water-conservation+areas+of+FL&c d=92&hl=en&ct=cln&≷=us>	Thank you for your comment and information.
JM - 17	10-22-2012	Email Subject: Tree Island Maps Everglades District Field Map WCA 2A, WCA 3A, WCA 3B	Thank you for your comment and information.
JM - 18	10-22-2012	Email subject: Tree Island Study http://www.sfrestore.org/issueteams/csop_advisor y_team/2004meetings/12jan2004/WCA_3B_Presen tation_FWS.pdf	Thank you for your comment and information.
JM - 19	10-22-2012	Email subject: WCA 3 Islands http://www.evergladesplan.org/shared- definition/shared def docs/sd_2010/111930/4-1- 2 skd revjsed 111910.pdf	Thank you for your comment and information.
JM - 20	11-29-2012	In regards to backfilling the Miami canal from 1.5 miles south of 5-8 to 1-75. This needs to be changed to allow for much of the existing levee to remain, and to flatten it to create much needed uplands.	Spoil mounds currently located adjacent to the Miami Canal from S-8 to S-339 have been identified to be removed and placed back into the Miami canal during construction of Alternative 4R2 to restore sheetflow. A portion of the spoil mounds currently located between

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		Distance between the uplands can be determined using flow studies; this will assure water being pushed south from EAA and Lake O will spread out across WCA3N.	5-339 and 1-75 that coincide with the ridges of the ridge and slough landscape would remain. These spoil mounds have vegetation that has been planted and maintained by the FWC. In addition, mounds would be created during construction of Alternative 4R2 approximately every 1 mile from 5-8 to 1-75. These additional mounds would provide a source of upland habitat or refugia to wildlife during periods of high water.
JM - 21	11-29-2012	FWS is digging holes and building man made uplands in Lox NWR. If this is good for their land and habitat, can we assume that it would be good for CEPP as well?	Please see response to comment JM-20 above (Dated 11-29-2012). A portion of the spoil mounds located adjacent to the Miami Canal that coincide with the ridges of the ridge and slough landscape would remain. In addition, mounds would be created during construction of Alternative 4R2 approximately every 1 mile from 5-8 to 1-75; providing a source of upland habitat or refugia to wildlife during periods of high water.
JM - 22	12-12-2012	What is wrong with the Dec 2012 proposals? 1. The red line has not moved to include Holey Lands and Rays. 2. Within the EAA they are not using all the public land that is under plow for water storage and/or cleaning the water. There are lots of large public properties leased to ag that could go into deep water storage are so indication that they are planning to use the newly purchased US Sugar lands for water storage. 3. There is no indication that they are planning to use the newly purchased US Sugar lands for water storage. 4. The Miami Canal in WCA3N is still a solid "black" line and must become a dotted or dashed "black" line indicating there is not going to be a complete back fill job but deep water refuge and adjacent uplands left. 5. They do not turn the L-29 into a spillway but instead want to install pumps. 6. They do not but gaps in the C11 Extension levee There should be no pumps but the entire levee the solid has a spillway as the apencies aereed to	inclusion of operational and structural modifications to existing infrastructure and/or construction of new features in Holeyland WMA was considered during initial plan formulation efforts for the CEPP. These proposals within the WMA were not further pursued given water quality concerns. The quantity/quality management measures south of Lake Okeechobee are recommended to be located on and maximize the usage of the A-2 Compartment of the EAA land south of Lake Okeechobee that is owned by the State of Florida. The identified project lands are located between and adjacent to the North New River and Miami Canals, which reduces the need to construct any additional conveyance features to move water from Lake Okeechobee to the project features and the WCAs. The robust hydraulic connection to Lake Okeechobee creates flexibility in managing high water levels and improves the timing of water deliveries to the WCAs. The project lands are also adjacent to existing water quality components that are currently being used for environmental purposes, creating a unique ability to optimize C&SF operations. Existing infrastructure, including roads, purp stations, etc., are already in existence and would not require substantial efforts for utilization or any unersade. Publick owned lands in the

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		do—as I said their word is no good and they must put into writing what they are going to do and not do. 7. No place do they indicate public access locations or the type of access or the type of access that will be allowed from these places. Essentially they are choine all off the	southern portion of FAA demonstrated better cost effectiveness on a cost per acre foot of storage and treatment when compared to other locations. The lands identified for the project have already been purchased and are owned by the State of Florida which reduces the risk and uncertainty associated with real estate costs and acquisitions.
		WCAs to public access. 8. They do not indicate that they are going to move any clean water into Holey Lands or Rays therefore they are either going to move dirty water or they are going block all water from entering these areas, either option is no good.	Implementation of Alternative 4R2 would include complete backfill of the Miami Canal from 5-8 to L/75 starting approximately 1.5 miles south of 5-8. Please see response to comment JM-27 above. A portion of the spoil mounds located adjacent to the Miami Canal that coincide with the ridges of the ridge and slough landscape would remain. In addition, mounds would be created during construction of Alternative 4R2 approximately every 1 mile from 5-8 to 1-75; providing a source of upland habitat or refugia to wildlife during periods of high water.
			Implementation of Alternative 4R2 would not include the construction of additional pump stations on the L-29 Levee. During plan formulation, construction of pump stations on the L-29 Levee was proposed as part of Alternative 3. Alternative 3 was not identified as the TSP.
			Gapping of the C-11 Extension is not included in Alternative 4R2. Gapping of the C-11 Extension was considered during plan formulation for the CEPP, but was not identified to be a cost effective measure. A recreation plan has been developed and included in CEPP Project
JM - 23	12-12-2012	Don't support these plans for above reasons. Corps states that will manage WCA3N to assure no harm to uplands, hardwoods and historical savegrass prairie area. To manage water in WCA3N to only benefit ENP as they have stated and what appears to be the goal of the current set of plan options is	PIR and EIS. Environmental effects within northern WCA 3A are described in Section 5 of the PIR/EIs and Appendix C.2.1 and C.2.2. The purpose of CEPP is to improve conditions within WCA-3A, 3B and Everglades National Park. Implementation of the CEPP is expected to rehydrate much of northern WCA 3A by providing a means for redistributing treated STA discharges from the L-4 and L-5 in a manner that

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		only going to drown the WCA3N and assure complete destruction of the Everglades in this part of Florida.	promotes sheetflow and by removing the drainage effects associated with the Miami Canal. As a result of increased flows, depths and inundation durations, it is expected that shorter hydroperiods sawgrass marshes will transition to slough/open water marsh communities in northwestern WCA-3A. Increased flow within northwestern WCA 3A would aid to reduce woody vegetation and dense sawgrass stands and help to promote a mosaic of weetand users to vegetation types within this area.
JM - 24	2-21-13	After reviewing the last power point on CEPP and finally figuring out how to open the web page which houses the information about CEPP I now realize why you all have avoided providing the answer to the questions we have been asking about how much water and for how long the planned deep water will be in the WCAs. From what I read you will push 20% more water than is established as the current high water levels and hold this amount of water in the WCAs for more than 40% of the year. Is this a correct reading of your data and plan? If this not a correct reading then what is a correct reading stated in maximum planned high water depth and duration of the planned high water events? Mind you this does not consider storm events to even deeper water depths causing more destruction of the Everglades. If it is the correct reading or your data and plan than this is not Everglades restoration but the drowning of the WCAs – Florida's Everglades.	The increase in water flow to WCA-3A will occur primarily in the dry season to reverse the current trend of water levels in northem WCA 3A receding well below the ground surface for long periods of time, which has resulted in extensive and documented losses of peat soils which has resulted in extensive and documented losses of peat soils from oxidation and muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 3-ft in some areas (Refer to Section 1.2). The CEPP TSP incorporates the Zone A schedule included in the current operation schedule for WCA-3A under ERIP. As such, inflows from Lake Okeechobee would not occur when stages in the WCA-3A are above Zone A consistent with current operations. The period of record modeling predictions, which include the storm events in the historical record (1965 to 2005), indicate that wet-season water levels in some years may be slightly increased (due to the loss in soil storage associated with improved ground water levels in northern WCA-3A), nowever the peak stage and duration of those events will decrease as a result of the increased outlet capacity from WCA-3A provided with AltAR2. (Refer to Appendix A, WCA-3A refer to Appendix C.2.2).
JM - 25	2-21-13	l also understand there is one more public meeting on CEPP and then a formal public comment time. Is	The last Task Force sponsored workshop was held on the 25 th of February. USACE will be hosting public meetings once the CEPP Draft

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Appendix C.3

LETTER	Date	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		this correct? Is there a real opportunity for the public to bring about meaningful change to the current CEPP plan or is this a done deal?	PIR/EIS is released to the public and published in the Federal Registrar. We have tried to be careful about separating the USACE's public meetings (which are required under NEPA) from the Task Force's workshops which are above and beyond the required public workshops which are above and beyond the required public
		what agency is responsible for the current cerry plan and will impellent the final plan?	input process and uo not count toward the OSACE'S NEVA obligations.
		Where will the funds come from to do CEPP? the Federal government, SFWMD or State of FL?	USACE and the SFWMO, as the non-Federal sponsor, are responsible for development and approval of the CEPP plan as well as implementation of the plan.
			The USACE and the South Florida Water Management District are responsible for funding CEPP with a 50/50 cost share.
JM-26	3-6-13	We spent a lot time with you and other decision makers and planners. I thank you for your time. However, I understand that the newest and final plan will flood the WCAs all year. These plans will keep water so deep 40% of the time that the water will be above what is today's maximum water depths. You did not respond to my questions about this deep water situation caused by your CERP-CEPP plans.	We appreciate your participation in the stakeholder engagement process utilized during the planning process. The CEPP plan does not intend to hold water levels above today's maximum water depths 40% of the time. As we explained during the CEPP Project Delivery Team meetings and Task Force hosted public workshops, the increase in water flow to WCA-34 will occur primarily in the dry assaron to reverse the current trend of water levels in norther the MCA 3A receding well below the ground surface for long periods of time, which has resulted in extensive and documented losses of peat soils from oxidation and muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 3-ft in some areas (Refer to Section 1.2). The CEPP TSP incorporates the Zone As schedule included in the current operation of WCA-3A under ERTP. As such, inflows from Lake Okeechobee would not occur when stages in the WCA-3A are above Zone A consistent with current operations. The period of record modeling predictions, which include the storm events in the historical record (1965 to 2005), indicate that wet-season water levels in some years may be slightly increased (due to the bost of the perior of the loss in soil storage associated with improved ground water levels in the nation of the loss of these parts of the loss of the perior of the loss in soil storage associated with improved ground water levels.
			events will decrease as a result of the increased outlet capacity from

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LETTER	Date	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
	Received		WCA-3A provided with Alt4R2. For additional analyses, please refer to Appendix A, Section A.8.3.2.1 (WCA-3A 3-gauge average stage-duration curve), and Appendix C.2.2 for hydrologic performance at specific gages within WCA-3A. Two complete sets of RSM-BN and RSM-GL hydrologic model performance measure output for the baselines and Alt4R2 are posted on the Everglades Plan public web site for the CRP? http://www.evergladesplan.public web site for the CRP?
JM-27	3-6-13	When I read in the newspaper that the currently desired CEPP plans harmed water supply to SE FL I knew you would put more water in the WCAs. These plans are not restoration but destruction of the Everglades. We explained in may terms why so much water is not restoration but a destruction plan for the Everglades. CERP is not merely restoration of Everglades National Park which is what it has become.	The CEPP plan incorporates multiple components of the overall Comprehensive Everglades Restoration Plan (CERP) framework authorized by WBAD 2000. The objectives of the Comprehensive Plan are restoration of the Everglades ecosystem while providing for other water-related needs. The CEPP TSP provides a significant increment of restoration for the natural system and also includes an increment of improvement for other water related needs, specifically 12 MGD and 5 MGD improvements to water supply for Broward and Miami-Dade county respectively. The objectives of the CEPP TSP are to not focused on Everglades Park, rather, focus on improving natural system conditions within WCA-3A, 3B as well as Everglades National Park.
JM-28	3-6-13	Since the decision makers have decided to ignore our input I have sent to my Congressional delegation a request to stop funding CRP and will work to get everyone I know to do the same. I am also encouraging groups I know to file litigation under the endangered species act because so much water is going to harm not only these animals the WCAs but the Big Cypress National Preserve. You are going to drown the eastern third of the Big Cypress like you have already drowned Zone 4 of the Stail Steps.	The natural system performance metrics and water levels targeted by CEPP TSP were developed by RECOVER through extensive scientific research, scrutiny, are based upon peer reviewed science and represent conditions under which the Everglades is expected to flourish throughout the system. (Refer to Appendix G on Performance Measures)
JM-29	3-6-13	How can you call it restoration when most of the year there will be more water in the WCAs than is currently legally allowed and when the current high.	The increase in water flow to WCA-3A will occur primarily in the dry season to reverse the current trend of water levels in northern WCA 3A receding well below the ground surface for long periods of time,

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		water line is reached the area is closed to human activity because the wildlife is being harmed by this high water? I would like a response to this question.	which has resulted in extensive and documented losses of peat soils from oxidation, muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 3-1t in some areas (Refer to Section 1.2). The CEP TSP incorporates the Zone A schedule included in the current operation of WCA-3A under ERTP. As such, inflows from Lake Okeechobee would not occur when stages in the WCA-3A are above Zone A consistent with current operations.
			The period of record modeling predictions, which include the storm events in the historical record (1965 to 2005), indicate that wetseason water levels in some years may be slightly increased (due to the loss in soil storage associated with improved ground water levels in northern WCA-3A), however, the peak stage and duration of hose events will decrease as a result of the increased outlet capacity from WCA-3A provided with Alt4R2. For additional analyses, please refer to Appendix A, Section A.B.3.2.1 (WCA-3A 3-gauge average stageduration curve), and Appendix C.2.2 for hydrologic performance at specific gages within WCA-3A.
			Two complete sets of RSM-BN and RSM-GL hydrologic model performance measure output for the baselines and Alt4R2 are posted on the Everglades Plan public web site for the CRRP: http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx
JM-30	7-1-13	There is a large amount of information on the dollars per day for whitetail deer and duck hunting in American and FL. Also, the Wilderness Society had a study done on the dollars.	
		the Externatives on water invalingment in the Everglades. This study reported there was, at that time, a million dollars worth of frogs removed from the Everglades a year. Of course frogging would have been north of US 41 because one cannot frog in Everglades National Park.	We are seeking the information on frogging and will include it in the CEP ecosystem services assessment if possible. The primary challenge is in determining how much CEPP would change the amount of frogging that takes place in the Everglades. The Ecosystem Services report will be provided separate from the Draft PIR/EIS after it has been through the review process.

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		This was taken from the report given today; page 16, on ecological services from CEPP/CERP.	
JM-31	7-1-13	Do they include the recreational value of pink shrimp? Or just the commercial shrimp industry dollars? They have a dollar value for recreational fishing but not for pink shrimp.	Only the commercial value of pink shrimp was included in the CEPP ecosystem services report because this was the aspect for which we could calculate a change with CEPP. The value of the change in commercial pink shrimp catch is included in the assessment. The Ecosystem Services report will be provided separate from the Draff PIR(EIS after if has been through the review process.
JM-32	7-1-13	Why is the value of potable water not included in the report about the value to society by CEPP?	At the time that this comment was submitted, the team was determining the value of the water supply improvements. If sufficient data is available to calculate the value of the water supply improvements, they will be included in the final draft of the assessment.
JM-33	7-1-13	Did I understand the speaker who addressed the issue of water for irrigation correctly in that the data, the dollar value, of the water in CEPP is worth more than \$22+ million to the growers of sugar cane. In other words the taxpayer is giving these folks a \$22+million gift of water.	The results presented on this date were preliminary results, calculated before the CEPP TSP was determined. The final draft of the assessment shows a relatively small benefit of CEPP to agriculture south of Lake Okeechobee, and a much larger benefit to society due to the restoration in the Greater Everglades and estuaries.
JM-34	7-1-13	On slides in the presentation Keefe_20130701CEPPPO I find this slide: There are two red lines. The one on the left follows the existing levees. The one on the right follows levee.	In regard to two different redlines, as we clarified during the PDT meeting, there was an error on one of the sildes where the "redline" had shifted south as result of a formatting error on that silde (the redline is a drawn on to the background map) Clarification of the "Red Line" referred to throughout CEPP's planning:
		When you and other talk about above and below the "red line" which "red line" are you talking about? Also, what is the purpose of the "red line" in the right picture?	The red line is just an accounting tool, that is, a way to keep track of the amount of water flowing southward into the remaining Everglades areas (i.e. Water Conservation Areas).
		The same right picture red line is in other slides.	

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		Please explain in detail what these two red lines mean to the planning team and stake holders.	
JM-35	7-1-13	The "fluke" red line should be the line that delineates the area north and west that is to be protected as areas that are to have water managed to protect the sawgrass and myrtles. Maybe this is a good sign and should be included in the future model assumptions.	Please refer to response above for JM-34, 7-1-13.
JM-36	7-1-13	The historical and oldest available map that I sent you all indicate that the sawgrass and myrtle area before drainage was east of the Mud Canal and north of the "fluke red line". The other areas were ridge and slough. Freddy has talked about this a lot and explained why the old airboat trails were located where they were. Talk with him again to get a better understanding of this vegetation-water-user relationship. Remember.—X amount water in at the top per day means X amount of water out the bottom per day. The bigger and lower the weirs the faster the water will flow. But, you have to keep enough water back to prevent over draining the WCAs.	The conditions in the system represented by the 1940s Davis Map represent a drained condition and conditions in northern WCA 3A after 1971 represent a drained condition and conditions of the Mami Canal on the north end and impounded conditions in the southern end of WCA 3A due to the levees. The goal of the CEPP is to remove the drainage effects of the Miami Canal in northern WCA-3A, extracting more natural distribution of water inflows into WCA-3A and restore more natural distribution of water inflows into WCA-3A and restorement WCA 3B as well as increasing capacity of the outlet structure discharging into the L-29 canal. The increase in outlet capacity of WCA-3A amounts to an additional 2650 cfs to be used in conjunction with the existing outlets of WCA 3A. This increase in outlet capacity will provide increase dapability to improve conditions within WCA-3A from existing water flows as well as the increase in inflow proposed by CEP TSP in the dry season. Passive weirs were considered early on in the pianning process. The weirs were screened out due to operable gated culvert structures providing more capability of these structures to pass flow throughout the range of water levels expected in WCA 3A. Weirs must be fixed at particular heights which can limit the amount of flow that could be passed through the system under more average of or driver conditions. The structures proposed in the CEPP TSP pre designed and intended to remain open under extreme conditions

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			and road raising for the Tamiami Trail Next Steps project of 9.7 feet is reached in the L-29 canal. The period of record analysis conducted for CEPP indicated that condition was only reached for approximately 15 days out of the entire 41 years. Therefore, use of gated culver structures perform similar to a weir but also provide much more capability to flow water out of WCA-3A under the full range of water levels.
			The concept of ONLY having weirs in the L-67A levee was also considered in the analyses conducted to develop the CERP plan in 1999. That option was also eliminated during that planning process for the same reasons - that greater benefits could be achieved with the use of gated culvert structures in the mid and lower portions of L67A and inclusion of some overflow weirs in the upper northem reaches of L67A for extreme events. Since CEPP is a first increment towards decompartmentalizing the system, the CEPP effort proposes that consideration of those weirs be considered in planning the next increment of CERP to ensure that CEPP provides a meaningful increment towards improving conditions within WCA-3A without over-draining given the limited amount of water budget available in
ЛМ-37	7-1-13	Also, since the savings clause protects water supply for ag, urban and wildlife and flood protection equivalent to the conditions that existed at the time of passage of CERP does this also apply to fish, wildlife and plants?	The savings clause provisions included in WRDA 2000 are specific to maintaining existing levels of flood control and water supply for agriculture, municipal and industrial users provided by the Central and Southern Flood Control project. The project assurances provisions of WRDA 2000 assure that the water made available by CERP to restore the natural system is reserved for the natural system and protected from other consumptive use purposes. The goals for CEPP and CERP is to restore more natural water levels and fluctuations that are beneficial to the ecosystem and is based upon the best peer reviewed scientific information available about the needs of the natural system and is therefore protective of the
JM-38	7-1-13	I do not see or hear any talk about the rate of water depth increase or water rise. This is important because if the water rises too fast	The performance metrics considered in the development of the CEPP TSP include recession and accession rates that are beneficial for the natural system. The CEPP period of record analyses indicate that

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		and/or the wrong time of the year there will be	recession and accession rates of water levels within WCA-3A, 3B and
		serious harm to many plants and animals.	ENP are much improved over today's conditions with the plan (Refer
	•		to Appendix C.2.2). The CEPP plan incorporates a significant change
		Can you all develop a chart, graph or some other	in operations towards a rain-driven delivery of water through the
		instrument that shows everyone how fast the water	system based upon ecologically desirable water levels throughout
		depth will increase per day for a normal year, high	WCA-3A. 3B and ENP based upon seasonal needs of the ecosystem.
		rain event year and low rain event year?	It is a rain-driven pull to move water through the system as opposed
			to stage-based regulatory push release from the WCA's that
		Such data should be developed for WCA3A, WCA3B,	currently exists today.
			The climate of south Florida is such that conditions in the system are
		Such data should be developed for both estuaries	largely driven by not only the amount of rainfall in any given year but
		and Lake O,	where the rainfall occurs throughout the system. That is why a 41
			year period of record rainfall analyses is done when planning and
			designing modifications to the water management system. This
			allows for evaluation of the broad range of conditions that may be
			experienced with proposed modifications. The information you
			request regarding how fast water depth will increase per day for any
			year is available in the model output posted. This output includes
			the hydrographs which shows water level changes during every year
			of the simulation period at various locations throughout the system
			as well as the period of record average stage-duration curves. Two
			complete sets of RSM-BN and RSM-GL hydrologic model
			performance measure output for the baselines and Alt4R2 are
			posted on the Everglades Plan public web site for the CERP:
			http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx
JM-39	7-1-13	What is this- new divide structure in L29 and new	The new divide structure in the L-29 canal is proposed to maximize
		discharge? Jack Moller	benefits of the Blue Shanty flowway and the 2.6 mile bridge
			associated with the DOI Tamiami Trail Next Steps project that focus
		New divide structure in L29 canal; New discharge,	flows within the remnant deep slough areas in that area, reducing
		subject to FDEP permitting and Settlement	seepage losses to the east while also providing the operational
		Agreement monitoring	flexibility to rehydrate the eastern portions of northeast Shark River
			Slough through the 1-mile eastern bridge.
			All inflows into Everalades National Dark are subject to monitoring
			and compliance with the Settlement Agreement. The CEPP plan

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	veceived		does re-distribute the water enter into Everalades National Park that
			must be taken into consideration as part of compliance with the
IM-40	7-1-13	There is a problem in the slide presentation for	Settlement Agreement. The information provided during the July 1 2013 PDT meeting
:	}	today's L67 structure discussion. This is found on	included modeling efforts conducted during CSOP as a means of
		the following page of the document to be presented	providing information from previous planning efforts which
		today.	considered weirs in the L-67A. Concur that the goals and objectives
	-		of that effort and CEPP are different and the modeling tool and
		We should not use the information from the CSOP	period or record rainfall considered in that effort must be taken into
		modeling because we do not know the design	account when interpreting model results.
		criteria that was given to the engineers to use as	
		they developed their plans and models.	The CSOP modeling results presented were based upon structures in
			the L-67A levee that included both gated culvert structures with
		If the proper design criteria is uses, to not over drain	adjacent sheetpile weir segments and relied on the existing S-356
		WCA3A & B and to not allow the water to go over	pump station to manage increased seepage into WCA-3B and NE
		the current regulatory depth or elevation, we can	Shark River Slough. The CSOP results presented at that PDT meeting
		then design the weirs to the proper size and	also did not include the effects of those alternatives to flooding or
		configuration to allow the water that flows in at the	water supply implications to the lower east coast. While the
		top the flow out the bottom. In other words "X"	alternative that rose to the top during that analysis did include the
	•	amount in today means "X" amount out at the	hybrid gated culvert structure with sheetpile weir segments, it is
		bottom today. This is sheet flow.	most important to recognize that the culvert structures were
			required to be closed when stages in WCA 3B approached 8.3 feet
	•		due to concerns from FFWCC about resources within WCA 3B as well
			as flooding concerns from uncontrolled inflows into WCA 3B. The
			CEPP plan proposes to keep the gated culvert structures in the Blue
			Shanty Flowway open until the design high water in L-29 canal
			reaches 9.7 feet associated with design of the DOI Tamiami Trail
			Next Steps additional bridging and road raising limit is reached which
			maximizes benefits to WCA 3A, 3B and ENP. The Blue Shanty levee
			proposed in CEPP ensures that project constraints for maintaining
			flood protection and water supply to the lower east coast developed
			areas are maintained, ensures goals for CERP for restoration of north
			to south flow of water is restored consistent with the landscape and
			ensures water levels and remaining tree island resources within the
			larger eastern portions of WCA 3B that has experienced subsidence
			are protected.

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JM-41	7-2-13	I would like to thank you both for the opportunity to listen, attend and participate in the meetings about CERP like you held yesterday.	Thank you for your helpful feedback on the presentations. As a result of your comment, more public comment time was provided in subsequent meetings.
		I suggest that instead of having a few moments for public comment that you allow public comment after each item. Each item on yesterday's agenda was/is very important. This idea is what I did while running ARC. After each management plan we had public comment. By doing this we had a much more productive meeting and meaningful dialog with staff and the public.	Regarding the carbon: the results of the CEPP ecosystem services assessment do not imply ownership or the ability to sell or trade carbon credits. In response to this comment we have clarified this point in the report. In addition we are seeking legal review of the report to make sure our wording states clearly that the report does not imply the ability to sell or trade the carbon. The Ecosystem Services report will be provided separate from the Draft PIR/EIS after it has been through the review process.
		Also, who owns the carbon that is sequestered in CERP-CEPP? Does the ACDE, SFWMD, State, County, City, Jandowner, Tribe? The value of this by product of CERP-CEPP is very high and could well lead to many legal issues as those who think they own these carbon credits decide they want the money or the ability to trade these credits for their own benefit.	
JM-42	7-2-13	This is the value of WCAs to FL's economy. "FWC economic analysis estimates indicate that the ECWMA generated an estimated annual economic impact of \$260,558,075 for the State and Southeast Florida region. This estimated annual economic impact has aided in the creation of an estimated 2,654 jobs." http://myfwc.com/media/2575828/ECWMA-Area-Overview.pdf I suggest that the folks working on this value issue check all the state records on this topic.	Thank you for the reference to the FWC material. We have been working with FWC to produce the ecosystem services report. Please note that in the report we focus specifically on the changes made by CEPP, rather than total values of areas. We also focus on net results in order to be transparent about the negative and positive effects of CEPP; for example, when calculating carbon sequestration due to peat improvements with CEPP we also calculated the negative effects of carbon emissions due to construction and operating pumps. The preliminary results show so far that in all cases the negative values are much smaller than the positive results, which is a positive economic result for Florida and the nation due to CEPP. The Ecosystem Services report will be provided separate from the
		All you need to do is keep a healthy habitat and not	Draft PIR/EIS after it has been through the review process.

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		drown the area to continue allowing the area to make money for Floridian and the nation. What harm will the current CEPP plan have on the known archeological sites?	Through consultation with stakeholders, such as State and Tribal Historic Preservation Officers and Indian tribes, USACE has taken into account the effects of this undertaking on cultural resources and is considering ways to avoid, minimize or mitigate adverse effects.
JM-43	7-2-13	Right now the 512A and 512B are closed while the water in the WCAs and other areas upstream are about to be closed because of too much water. It is the wat season. Water in the Everglades should be freely flowing into RIP. If we had weirs this would be the case. As it is now someone will close the gates or structures at the bottom and start the drowning process of all the land to Orlando and oceans again.	The CEPP plan will enhance our ability to move water through the Everglades by providing an additional 2650 cfs outlet capacity to WCA 3A. Please refer to response to JM-36 7-1-13 regarding weirs.
		Please share this with the members of the team working on CEPP. Some of them raised the issue of trust. This is an example of why gates or control structures other than weirs are not desirable.	
JM-44	7-3-13	Do you all have a map showing the expected annual ponding depths in WCA3A after CEPP is completed? If so will you send it to me. Also, while looking at the large volume of data you sent me on Monday I find that there are no maps showing the ponding depths in WCA3A for Oct. 1996. Why is this month missing? Is there a map for Oct 1996? I find maps for most all Octyears.	The average annual ponding depth maps for the Existing Condition Base and Alt 4R2 were sent to you via email from Chris McVoy on 7-8-13. Please refer to Section 6.2.1 for difference in average annual ponding depths between Alt 4R2 and Future Without Project condition. During the alternative modeling and evaluation process, difference maps were not generated for every year in the POR, however, the differences in water levels can be seen for each year in the POR on the hydrographs for various locations within the system. Two complete sets of RSM-BN and RSM-GI, hydrologic model performance measure output for the baselines and Alt4R2 are posted on the Everglades Plan public web site for the CERP:
			http://www.evergladesplan.org/pm/projects/proj 51 cepp.aspx The hydrologic output produced following the identification of ALTAR2 as the TSP included difference maps comparing hydroperiod

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			and stages between ALT4R2 and each of the CEPP baselines. This information is additionally included in Appendix A (Engineering), Annex A-2 (Hydrologic Modeling), Reference 6.
JM-45	7.4.13	The issue of pushing too much water into the WCAs is not a new one. As you can see the FWC took a position on this matter many years ago. The current CEPP plan that plans on having deep water held in WCA3A is not acceptable. Whoever is responsible for this planning process should have never taken to fare Col. a plan that causes ponding, flooding, and harm to the WCA. They should have sent it back to the engineers and said you must redo the plan so that it does not cause harm to the WCAs.	The increase in water flow to WCA 3A will occur primarily in the dry season to reverse the current trend of water levels in northern WCA 3A receding well below the ground surface for long periods of time, which has resulted in extensive and documented losses of peat soils from oxidation, muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 3-ft in some areas (Refer to Section 1.2). The CEPP TSP incorporates the Zone A schedule included in the current operation of WCA-3A under ERTP. As such, inflows from Lake Okeechobee would not occur when stages in the WCA 3A are above Zone A consistent with current operations. The period of record modeling predictions, which include the storm events in the historical record (1965 to 2005), indicate that wetseason water levels in some years may be slightly increased (due to the loss in soil storage associated with inproved ground water levels in northern WCA-3A, however, the peak stage and duration of those events will decrease as a result of the increased outlet capacity from WCA-3A provided with Alt4R2. For additional analyses, please refer to Appendix A, Section A.8.3.2.1 (WCA-3A 3-gauge avenage stage-duration curve), and Appendix C.2.2 for hydrologic performance at specific gages within WCA-3A. Two complete sets of RSM-BN and RSM-GL hydrologic model performance measure output for the baselines and Alt4R2 are posted on the Everglades Plan public web site for the CERP: http://www.evergladesplan.org/pni/projects/proi.51_cepp.aspx
JM-46			
Ed Fielding - 1	12-17-2012	It's so heartening that the Corps is listening to our plea to protect the Estuary from Lake O releases. We all recognize that 200,000ac/ft is just a beginning but it's strong and positive. Many thanks -for your strong efforts in this quest.	Thank you for your comment.

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Emilio Lopez (EL) - 1		Because the threat of stormwater pollution, as documented by SFWMD website, is of national proportion and not limited to the Everglades or Florida, can the technology be implemented in stormwater curb inlets, in cities of 5 FL that are willing to participate in the research, to determine the effectiveness of the technology? Lopez technologies can provide additional sources to show the effectiveness of the technology thus far.	Water quality is not one of the objectives of CEPP and the project authority is focused on modifications of the Central and Southern Florida Flood Control project which is comprised of the regional water management system. Thank you for your comment and information.
– 1	11-23-2012	The following South Florida ecosystem restoration and protection critical performance objectives/measures are absent from or subsumed by/demoted under more general performance objectives/measures in the downloaded list: Everglades - timing, extent, magnitude, duration, and frequency of natural fires (pyroperiod) to crop back aggressively colonizing plant species, such as cattail — tree island coverages. - Iminium and maximum flows and levels to establish and maintain target tree island target coverages. - limiting nutrient concentrations and loads to outstanding Florida Waters to attain and maintain applicable human and wildlife uses, reduce the magnitudes, durations, and frequencies of colorand turbidity-related light limitation, contaminated peat accretion, algae blooms, and dissolved oxygen sags to acceptable levels, and dissolved oxygen namagnitudes, durations, and disquencies of noncompliance with the associated nutrient and nutrient-related Water Quality Standards - sulfate concentrations and loads to restore the recursive the recursive man and wildlife uses of the Everslades in resonne to the reduced increant.	Each of the project performance measures for the CEPP planning effort are derived from those performance measures approved for use by RECOVER. The members of RECOVER have extensive experience working in south Florida and Everglades wettensive experience working in south Florida and Everglades wettensive experts in their fields. Performance measures are used to make the correlation between hydrologic output and ecosystem functions and evaluate the degree to which proposed alternative plans will meet restoration objectives. The project team will utilize performance measures developed from the Lake Okeechobee, Northern Estuaries and Greater Everglades Ridge and Slough Conceptual Ecological Model (CEM). These CEM have been extensively peer reviewed and provide the framework for the planning and assessment of the CERP. CEPP has addressed other factors critical to ecosystem restoration in the PIR/EIS including an assessment of the potential effects on water quality.

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		mercury wet and dry atmospheric deposition fluxes	
		to the Everglades under the statewide mercury TMDL	
-		time-to-recovery, because a recovery of sufficient	
		ecosystem structures, functions, and throughputs to	
•		constitute a restored Everglades and the human and	
		wildlife uses to which it is put and the	
		environmental services it provides outside the	
		planning horizon for CEPP is of inherently less value	
		than a recovery that occurs within that planning	
		horizon, all other things being equal.	
		Estuaries, Lagoons and Bays	
		 freshwater flows to reduce the magnitudes, 	
		durations, and frequencies of osmotic stress-related	
		estuarine and marine life barriers to migration,	
		reduced reproductive success, and mortality at each	
		ife stage, including prized sport fish species and	
-		endangered marine wildlife	
		limiting nutrient, sediment, and toxicant	
		concentrations and loads to estuaries	
		 minimum photosynthetically active radiation 	
		(PAR) flux to estuarine submersed aquatic	
		vegetation (SAV) as a function of depth and color	
		and turbidity, which are, in turn, functions of	
		dissolved organic carbon, suspended solids, and	
•		nutrient concentrations and loads	
		dissolved organic carbon concentrations and loads	
		to Florida Bay to restore the mercury-impaired	
		human and wildlife uses of Florida Bay	
		time-to-recovery as per the Everglades	
		A contract of the continue of the	
		As a consequence of these critical officers of	
		demotions to a secondary consideration status, the	
		quality of the source water required to achieve the	
		water quantity performance measures is of no	

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		consequence, and neither is the time to recovery of the water quality of the Evergladee, Siscayne Bay, or Florida Bay ecosystems, so the in-place contaminated sediment in Lake Okeechobee and the impacted zones in the Northern Everglades need not be remediated to accelerate recovery. Thus, the following water quality constraints imposed by administrative fiat**: - existing water quality must not be degraded, e.g., first do no harm. - all WOS must be met, including but not limited to nutrients, turbidity, dissolved oxygen, and mercury, and wherever practicable, water quality benefits will be integrated into the infrastructure design and operation plans, as long as that can be does without interfering with the attainment of their water quantity performance objectives.	
LF-2	11-23-2012	It is good to know at this critical juncture that the USACE-Jacksonville and the local sponsor of the C&SF Project feel free to ignore the Clean Water Act and WRDA 1996 and 2000 when it comes to the source water, design, and operation of infrastructure for South Florida ecosystem restoration and protection. This misapprehension will form the basis of a lawsuit fine do consystem the basis of a lawsuit fine do casure a more comprehensive approach with appropriate source water and infrastructure design and operation constraints that attain and maintain minimum water quality as well as minimum and maintain maximum water quantity, Knowing this, feel free to contest these fatal flaws in public comments rather than going along, either actively or passively, with	The USACE and NFS with the consent of the FDEP intend to construct and operate the CEPP project in a manner that is consistent and in compliance with the Clean Water Act and other State water quality criteria as they exist today and as they may be amended at the time of feature construction.

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		the demotion of water quality constraints to	
		secondary or nonexistent status.	
David	3-12-13	As I understand the current CERP plans they	The conditions in the system today were brought about by the
Charland		completely ignore the necessity of hydro periods	drainage and impoundments created as a result of construction of
(DC)-1		and the need of the land to be dry at least part of	the Central and Southern Florida Flood Control project. The Miami
		the year. I am a long time resident that has enjoyed	Canal has caused over-drainage of the upper reaches of WCA 3A and
		the Glades before Area 1 & 2 were turned into lakes	the levees have resulted in ponding of water in the southern reaches
		and when area 3 was much drier than it is currently.	of WCA 3A. The objectives for CEPP and CERP are to restore more
		Destroying the remaining Glades and probably parts	natural water levels and fluctuations that are beneficial to the
		of the Big Cypress in the name of Restoration is not	ecosystem and is based upon the best peer reviewed scientific
		acceptable. Take a ride out Alligator Alley and look	information available about the needs of the natural system. The
		at the sea of Cat Tails. Used to be mostly Sawgrass.	plan and operations of the system will provide for restoration of
			seasonal hydroperiods and includes appropriate recession of water
			levels in the dry season for ridges and sloughs.
DC-2	3-12-13	If you can't come up with a plan that makes sense,	Thank you for your comment.
		why not do what should have been done when this	
		whole mess really became an obvious failure and	
		that is condemn all the agricultural land south of the	
		Lake? About 30 years ago the Florida Wildlife	
		Federation had a seminar in West Palm Beach and	
		the conclusion of many of the working groups was	
		that the only way to prevent the area from	
		becoming an extension of the Cities on both coasts	
		was to get ownership of the land. Here we are 30	
		years later about to spend \$Billions for a system	
		that won't work, or won't work to restore the	
		Everglades. The ACOE is a great group of	
		professionals but they aren't and have never been	
		in restoration business. The current mess is largely	
		the fault of their mind set. I can remember Lake O	
		when the water was as clear as gin and hand a	
		white sand bottom. Now it has a foot or more black	
		goop on the bottom and you can't see 6" into the	
		water.	
DC-3	3-12-13	In any case please enter my comments in the record. They probably won't amount to a hill of	Thank you for your comment.

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		beans, but at least I did what I could do. If you don't understand the history of South Florida and the Gaddes, read "The Swamp" by Michael Grunwald and Tom Shirley's "On Patrol", also Toch Brown's "Toch". Thank you.	
SUGAR CANE G	SROWERS COOP	SUGAR CANE GROWERS COOPERATIVE OF FLORIDA (SUGAR)	
Sugar-1	3-29-12	We have many concerns about the scoping comment responses as well as the direction the Central Evergiades Planning Project (CEPP) is taking. Please accept the following additional comments on behalf of Sugar Cane Growers Cooperative of Florida regarding this initiative.	Thank you for your comments.
Supar-2	3-29-12	The Comprehensive Everalades Restoration Plan	Thank you for your comment.
7 lpgnc	7.2.7.7.	(CERP), consisting of some-68 components, was	יוופוור ליטם וטן ליטם כטוווויפור.
		designed to protect and restore the remaining	
		Everglades while meeting the water related needs	
		of the region. This included improving the timing,	
		flow and distribution of water while providing the	
		level of service for flood protection and water	
		supply as of the date of enactment of CERP, known	
		as the Savings Clause protections. In all likelihood	
		Congress would not have approved CERP without	
		the broad-base stakeholder support that was	
		derived by the commitments to meet the needs for	
	4, 60	both the built and natural environments	
Sugar-3	3-29-12	We noted that the project team has modified its	Project objectives identified for CEPP are consistent with those of
		goals by adding "Enhance Economic Values and	CERP. Section 601 (h) of WRDA 2000 (authorizing CERP) states "the
		Social Well Being" in its goals and objectives	overarching objective of the Plan is the restoration, preservation,
		statement at the March 26, 2012 Project Delivery	and protection of the South Florida ecosystem while providing for
		Team meeting. However the sub-objectives under	other water-related needs of the region, including water supply and
		this goal give us concern. The presentation stated,	flood protection. Project objectives are included in Section 1 of the
		"the formulation and evaluation of alternatives will	Draft CEPP Project PIR and EIS. The CEPP TSP, Alt4R2, provides for
		include the objective of providing water supply as	maintaining the current level of water supply cut-backs to the Lake
		incidental to the objective of fulfilling the ecological	Okeechobee Service area and 14 MGD and 5 MGD increase in water
		needs of the South Florida ecosystem." And further	supply to users in Broward and Miami-Dade County respectively.
		states, "Water retained in the Lake that is not	

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		identified for the natural system may be available for water supply." These two sub-objectives clearly indicate to us that water supply needs are not being addressed on equal footing as Congress intended when approving the CERP.	
Sugar-4	3-29-12	While we support the Corps' desire to streamline the process and acknowledge the National Academy of Science's recommendation to evaluate groups of complementary components to achieve benefits that would not be attained with the piece-by-piece approach, we are concerned that an appropriate evaluation of alternatives to flow more water through the Central Everglades will not be conducted. The CEPP cannot be undertaken in a avacum, it must consider current and on-going take Okeechobee and Everglades projects in the region (including the rehabilitation of the Herbert Hoover Dike), projects anticipated to be built during the planning horizon, and it must be compatible with and complementary to whatever remedy is adopted to settle the federal filigation.	The planning assumptions included in CEPP planning process did take into account projects anticipated to be built within the planning horizon. Please refer to Section 2 for details on those assumptions.
Sugar-5	3-29-12	One of the objectives of the CEPP is to capture and divert water from the Lake now lost to tide to reduce harmful discharges to the Caloosahatchee and St. Lucie Estuaries. CEPP envisioned that these discharges would be stored in a series of strategically located Aquifer Storage and Recovery Wells (ASN to provide carry over storage capacity or storage in a series of deep above ground reservoirs in the Everglades Agricultural Area (EAA), Caloosahatchee Basin and the St. Lucie Basin. The plan was also dependent on improving conveyance capacity, within the EAA canal network.	It is important to recognize that CEPP is an increment of restoration and did not intend to provide all of the benefits identified in CERP plan. The CEPP effort included a robust plan formulation and evaluation process that included a robust stakeholder engagement process in developing the final array of plans that were evaluated in detail for this first increment of diverting flows currently being discharged to the estuary and re-directing those flows south. There is still much that will need to be done in future increments of CERP to address the needs of the northern estuaries. It was further identified that the existing canal conveyance capacity within the EAA are sufficient to accommodate the water budget and treatment capabilities available for this first increment.
Sugar-6	3-29-12	Subsequent to the passage of CERP, the state pledged the Everglades Conveyance and Regional Treatment (ECART) project, and the EAA-AI	The SFWMD's plan, entitled the Long-Term Plan for Achieving Water Quality Goals for the Everglades Protection Area Tributary Basins (LTP), was developed and subsequently incorporated into the EFA in

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		Reservoir as critical components of the Long-Term	2003. Consistent with the requirements of the EFA, the LTP was
		Plan to meet Everglades water quality standards as	subsequently amended to include additional remedial measures,
		mandated by the Florida Legislature in the 2003	including expansion of the original STAs. In January 2007, the
		amendments to the Everglades Forever Act (Section	Everglades Conveyance and Regional Treatment (ECART) project,
		373.4592(3) Florida Statutes). The Long Term Plan is	which was designed to improve the movement of stormwater runoff
		periodically updated by the South Florida Water	in the Everglades Agricultural Area, was added to the LTP. The
		Management District (SFWMD) and submitted to	Everglades Agricultural Area (EAA) A-1 Storage Reservoir project, a
		the Florida Department of Environmental Protection	feature of the CERP whose authorization is contingent on
		(FDEP) for approval. The legislation mandates that	Congressional Approval of a report by the Corps Chief of Engineers,
		SFWMD and DEP annually report to the Governor	was complementary to the goals of the LTP but was never
		and the Florida Legislature summarizing the water	incorporated into the LTP.
		conditions in the Everglades Protection Area, the	
		status of the impacted areas, the status of the	At this time, ECART is not envisioned to be constructed as previously
		construction of the Stormwater Treatment Areas,	planned, but other new projects will be constructed to enable the
		the implementation of on-farm Best Management	SFWMD to achieve the Everglades phosphorus criterion. The new
		Practices, and actions to monitor and control exotic	projects, documented in the Restoration Strategies Regional Water
		species. Section 373.4592(13) Florida Statutes. It	Quality Plan (RS Plan) dated April 27, 2012.
		was the intent of the Legislature that	
		"implementation of the Long-Term Plan shall be	In 2013, the Florida legislature modified the EFA to incorporate the
		integrated and consistent with the implementation	RS Plan into the LTP. The RS Plan provides alternative strategies for
		of the projects and activities in the congressionally	achieving the water quality goals of the EPA. The SFWMD will
		authorized components of the CERP so that	continue to report annually to the Governor and Florida legislature
		unnecessary and duplicative costs will be avoided."	on the performance of the STAs and the progress of LTP
		Clearly, there was a well thought out plan, including	implementation and will continue to integrate CERP projects into
		process development and engineering components,	state water quality planning as proposed in the CEPP.
		that was mandated by the Florida Legislature for the	
		Long-Term Plan and by the Congress for CERP.	
Sugar-7	3-29-12	While undertaking CEPP, the Corps must be mindful	Savings Clause requirements were a constraint for CEPP. The Savings
		of the Savings Clause requirements in CERP-that	Clause analysis is located in Annex B of the Draft PIR/EIS.
		there shall be no elimination or transfer of existing	
		legal sources of water, existing as of December	
		2000, until a new source of water supply of	
		comparable quality is available. The Savings Clause	
		constraint should be built into the front end of the	
		screening process for any alternative to move	
		forward. Given the decision to use the LORSOB Lake	

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		Schedule as the future without project planning condition, and the lack of support for recognizing the ability to store more water in Lake Okeechobee as improvements are made to the Herbert Hoover Dike, we are concerned that a plan to meet the objectives of CEPP, and the requirements of the Savings Clause, will not possible.	
Sugar-8	3-29-12	Also puzzling are the scoping comment responses regarding ASR wells as a component that will not be evaluated as part of the <i>first increment</i> of CEP, but will be put off to be evaluated at a later date. The preliminary data regarding the effectiveness of ASR technology are promising and other than the Lake, this may be the only viable solution to store water for carry-over supply.	The first increment of CEPP did not include detailed evaluation of the system of regional ASR wells that were included as a component of the CERP plan.
Sugar-9	3-29-12	During the March 9, 2012 EAA component screening presentation, a matrix was presented evaluating the costs and benefits between deep and shallow storage. Both configurations will require canal conveyance improvements. Deep storage reservoirs have the potential to provide additional storage and flow capacity albeit at a higher cost. Focusing on improved utilization of the storage capacity in the lake would seem likely to be a part of the most cost effective alternative.	The CERP Plan did not envision utilization of Lake Okeechobee as a storage reservoir for water supply, rather, that the Lake stages would remain within the ecologically desired envelope more often due to the storage available both north and south of the Lake as well as the system of ASR wells around the Lake. Operational changes were incorporated into the hydrologic modeling conducted for the CEPP atternatives, including the TSP Atternative 4R2, in an effort to optimize CEPP system-wide performance within the existing flexibility of the 2008 LORS. More specifically, the hydrologic modeling of the CEPP alternatives included proposed revisions to the 2008 LORS decision tree outcome maximum allowable discharges dependant on the following criteria: Lake Okeechobee inflow and climate forecasts (class limits were modified for tributary hydrologic conditions, seasonal climate outcook, and multi-seasonal climate outcoiks, stage tends (reculation zone), and stage trends (receding or ascending). While some refinements were made within the operational flexibility available in the 2008 LORS, consistent with the original modeling intent, the final operational assumptions ultimately extended beyond this flexibility due to adjustments made to the tributary/climatological classifications. Additional information and documentation of these assumptions can be found in the

Appendix C.3

Pertinent Correspondence Information

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			Engineering Appendix (Appendix A).
			The FEB is the least cost option and compatible with future increments of CERP. The 12ft Reservoir provides the greatest
			benefits to the everglades; however, the cost was prohibitive for the
			imaginate from further consideration. A full description of the evaluation and screening are provided in Section 3 of the CEPP Draft
			PIR/EIS.
Sugar-10	3-29-12	We believe that NEPA requires that all reasonable	Please refer to response to Sugar-9 3-29-12 above.
		alternatives be evaluated as part of the process	
		and that evaluation must include the option of	
		storing additional water in Lake Okeechobee. As	
		the National Research Council said in its Second	
		Biennial Report in 2008, "Lake Okeechobee is a	
		critical linchpin of the South Florida EcosystemThe	
		challenges of water quantity and quality in the	
		Lake have important ramifications for the entire	
		ecasystem because the Lake supports important	
		elements of the region's biota, and it olso has the	
		potential to serve as a major source of water storage	
		and water supply for dawnstream ecosystems. This	
		potential will became more critical if other planned	
		and proposed sources of water do not become	
		ovailable." At page 186. The Corps is at that critical	
		decision point now.	
Sugar-11	3-29-12	The second juggernaut in the CEPP is the water	All alternatives were evaluated to be in compliance with WQBEL.
		quality constraint. The without-project	
		condition assumes that water quality standards	
		under the Clean Water Act are being met. While	
		this seems straightforward, it is anything but.	

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		The issue is tied up in two federal court cases under two different judges. While there are ongoing discussions and negotiations regarding this issue between state and federal parties, there currently is no agreement on what the water quality standards will be or what projects on what lands will be necessary to achieve the ultimate standard.	
Sugar-12	3-29-12	These issues must be resolved so that the CEP planners know what water quality target must be met. Potentially the same set of state owned lands could be identified to meet existing water flow as an outcome to the federal litigation as well as for the new water to be delivered as part of CEPP. How this water quality dispute is resolved also has obvious financial ramifications to the South Florida Water Management District, as well as the state.	All alternatives were evaluated to be in compliance with WQBEL.
Sugar-13	3-29-12	Please make available the Memorandum of Record for Decision Point 1 that was reached on January 27, 2012 and the Risk Register that will help planners evaluate potential risks associated with various assumptions during the modeling phase. In view of the accelerated beginning of the CEP process we view these comments as a supplement to our previous submission during the formal scoping process.	This information can be made available through a formal request pursuant to the Freedom of Information Act
Sugar-14	3-29-12	Please reconsider your position regarding your goals and objectives in meeting the water related	Thank you for your comment.

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		needs of the region, the future storage capabilities of Lake Okeechobee and the need to integrate ongoing and future planned Lake Okeechobee/Forerglades initiatives into the CEPP	
FLORIDA CRYS	TALS CORPORAT	PIOCESS. FLORIDA CRYSTALS CORPORATION (CRYSTALS)	
CRYSTALS-1	03-30-2012	Florida Crystals continues to support the goal of the CEPP, which as we understand it, is to bring important restoration projects on-line sooner.	The CEPP TSP provides an increment of restoration of the central Everglades ecosystem as well as an increment of improvement to
		consistent with the approved 1999 Comprehensive Everglades Restoration Plan. The 1999 Approved Plan calls for restoring the	
		Everglades while providing for other water- related needs of South Florida. For purposes of the CFPP this means (among other thines)	the existing level of water supply cut-backs to the Lake Okeechobee Service area.
		addressing the water supply needs of existing uses that rely on Lake Okeechobee, and	
		designing a project that uses lands purchased in the Everglades Agricultural Area (EAA) and elsewhere to implement the 1999 Approved	
		Plan. We believe that the Corps can develop a plan for the CEPP which meets those criteria and committee that the the the beholder.	
		remains use to the stakeholder conscious that led to Congressional authorization of the 1999 Approved Plan. Our comments today focus on the configuration of the 1999 Approved Plan.	
		the integration of the CEPP with other ongoing activities, and the Corps' commitment to provide pre-CERP levels of service to aericultural and	
		urban water uses in the CEPP development process.	

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CRYSTALS-2	03-30-2012	Misidentification of Stakeholder Comments, As an initial matter, the Corps misidentified comments from agricultural stakeholders in its Scoping Response. Florida Crystals' comments were identified as the comments of the Sugar Cane Growers Cooperative of Florida (and labeled as "Sugar") comments, comments, while the comments comments were identified as the comments of Florida Crystals (and labeled as "Crystals"). The Corps should correct this error.	The Scoping Comment response matrix was corrected and is located in Appendix C.3 of the Draft PIR/EIS.
CRYSTALS-3	03-30-2012	Projects Included within the CEPP. We previously identified nine components of the 1999 Approved Plan which fit the general description of the CEPP. The Scoping Response confirms that five of those components are included, included a sixth component ("Bird Drive Recharge Area (U)") which we did not identify, and was silent regarding the remaining four projects on our list. Scoping Response, at 46 (response to Sugar-2)	The component Q "Water Conservation Area 3A and 3B Levee Seepage Management" is included in the Broward Water Preserve Area Project which has completed the planning phase and awaiting authorization from Congress. Inclusion of structural and operational modifications to existing infrastructure and/or construction of new features in Holeyland WMA was considered during initial plan formulation efforts for the CEPP (refer to Appendix E for details). Features within the WMAs were not further pursued given water quality concerns.
			Schedule (f) components of CERP. The 1999 Approved plan in regards to components of CERP. The 1999 Approved plan in regards to component E states "The Luke Okeechobee Regulation Schedule will be modified in order to take advantage of the additional storage facilities identified in the construction features. Two additional zones will be added to the schedule. The first zone will trigger discharges to the narth of the Lake reservoir and the Everglades Agricultural Area reservoir. The second higher zone will trigger the Lake Okeechobee any festive in the Lake Okeechobee or the system of ASR components of CERP. The CEPP planning effort did not include CERP components for storage north of Lake Okeechobee or the system of ASR wells around Lake Okeechobee or the regional system of ASR wells around Lake Okeechobee or the nineduled CERP in intended to be a final PIR for CERP implementation, only an increment of restoration in the central Everglades portion of the

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			system.
CRYSTALS-4	03-30-2012	The Corps needs to explain why it is not including in the CEPP all of the relevant components of the 1999 Approved Plan. The Corps' Federal Register notice indicated that the Cerps' Federal Register notice indicated that the Cerps' is the "heart of CERP" and is the Corps' effort to address water levels in Lake Okeechobee, water deliveries to the Water Conservation Areas, and sheetflow in the Everglades, 76 Fed. Reg. 75539 (Dec. 2, 2011). The project components left off the Corps' list all address those issues. Moreover, the Corps appears to be considering proposals in the CEPP that are addressed by those missing components, e.g., consideration of seepage management measures along the WCA 3A and 3B levee (which is missing component "Q"). We are concerned that failure to include them signals that the Corps effectively is abandoning them. Abandoning components of the 1999 Approved Plan is too of is sliently if the Corps does not include them in the CEPP, then you should explain why and set forth how the Corps intends to address them in some separate process.	Consistent with the other planning efforts conducted to date on CERP components, the CEPP effort was purposefully focused on the components of CERP that would provide an intial increment of restoration for the central everglades ecosystem. It was recognized in the 1999 Approved Plan (CERP) that implementation would require that the plan be divided into smaller implementable packages of components. It was further recognized that an adaptive assessment strategy requires incremental implementation of the plan components and each increment would be planned and designed to carry the program one step closer to the ultimate goal of ecosystem restoration (Central and Southern Florida Project Comprehensive Review Study, Final Fasibility Report and PEIS, page 10-7) The CERP component Q "Water Conservation Area 3A and 3B Levee Seepage Management" is included in the Broward Water Preserve Area Project which has completed the planning phase and awaiting authorization from Congress. CEPP is not intended to be a final PIR for CERP implementation, only an increment of restoration in the central Everglades portion of the system.
CRYSTALS-5	03-30-2012	We have a much greater concern that the CEPP itself is not integrated with other ongoing Corps and SFWMD projects in the same locations and dealing with the same subject matter. The CERP was conceived of as the "Comprehensive Everglades Restoration Plan. The expectation of stakeholders and Congress was that the 1999 Approved Plan would be integrated with and guide all changes to the Central and Southern Florida Project.See, e.g., WRDA 2000, §6O1(b)1(1)(B) (directing Corps to integrate implementation of CERP "with ongoing Federal and State projects	The plan anticipates on-going efforts and project within the study area such as the State's Restoration Strategies Plan, Modified Water Deliveries to Everglades National Park, C-1.11 South Dade Project. Tamiami Trail Next Steps additional bridging and road raising, Herbert Hoover Dike Rehabilitation as well as other CERP Projects (BWVPA, IRL-South, Site J, BECW, C-1.11 SC, C-4.3 Reservoir). These projects were represented in the POR modeling analyses used to develop the CEPP plan to ensure the plan is fully integrated with these other projects. The recommended plan works with and within the context of all of these on-going projects. Please refer to Section 2 for details on the future with-out project assumptions that were incorporated into the with-plan condition.

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		and activities), WRDA 1996, § 528(b)(2)(B), (3)(A), (c)(1) (providing that ongoing Corps actions should be consistent with Governor's Commission for Sustainable South Florida conceptual plan, which is the template of the CERP). The Corps announced the CEPP as "(a)n integrated study effort" for the Central Everglades that will "set the direction for the next decade of CERP implementation." 76 Fed. Reg. 75539 (Dec. 2, 2011)	Again, CEPP is not intended to be a final PIR for CERP implementation, only an increment of restoration in the central Everglades portion of the system.
CRYSTALS-6	03-30-2012	Despite that guidance the Corps is not integrating other agency activities, such as the rehabilitation of the Herbert Hoover Dike (HHD) and the Lake Okeechobee regulation schedule (e.g., making permanent the 2008 regulation schedule, which is discussed further below). The Corps also is not addressing the Stat's Long-Term Plan to address Everglades water quality issues approved by the Florida Legislature, § 373.4596(3), Fla. Stat. The Long-Term Plan, in particular, calls for canal conveyance improvements in the EAA and construction of a reservoir at the EAA A.1 site that would include opportunities for agricultural water storage. The Corps also is not addressing the measures under consideration related to ongoing court cases that would affect water quality and discharges from the EAA to the Water Conservation Acras. These measures are inherently interrelated with any CEPP plan designed to use the A-1 site or which involved changes in water flows in the EAA, and yet the CEPP withhout explanation does not include them within its scope.	Please refer to response to CRYSTALS-5 03-30-2012.
CRYSTALS-7	03-30-2012	The lack of integration of the CEPP with these other projects hobbles the ability of the Corps	High water levels within Lake Okeechobee would cause significant impacts to the littoral zone. The lake's natural resources are

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		and SFWIMD to address the water-related needs	dependent on the littoral zone since it provides nursery areas,
		of the region. By keeping activities related to Lake Okeechobee separate, the Corps is taking off the	spawning areas, toraging areas, and roosting areas required for completion of life cycles. The frequency and duration of inundation
		table reasonable alternatives related to the lake	of the littoral zone would increase with higher lake levels. High lake
		which could address water storage. By not	stages result in loss of beneficial littoral zone plant communities in
		integrating the CEPP with consideration of new	favor of introduced exotics. (e.g. torpedo grass) as well as impacts to
		Stormwater Treatment Areas and related	wading birds and other water-dependent wildlife.
		deatures in ongoing litigation, the Corps has two	The colours are in a CTD at least the did to be
		same SFWMD-owned lands in the EAA and that	into account projects anticipated to be built within the planning
		will compete for the same limited pool of funds	horizon, please refer to Section 2 for details on those assumptions.
		at the SFWMD. The result has been confusion,	The with-plan analyses conducted also included the State's
		because the public does not know which lands in	Restoration Strategies plan for an FEB on the A-1 parcel of the
		the EAA are available for the CEPP or whether	Talisman tract within the EAA to be constructed in the planning area
		the SFWMD will be able to afford to participate	which will be affected by CEPP. The CEPP plan proposes to
		in the CEPP at all.This lack of integration is	implement a similar FEB on the adjacent A-2 parcel of the Talisman
	-	inconsistent with Congress' directives to the	tract that would be fully integrated and operated in conjunction with
		Corps. See, e.g., WRDA 2000, § 601(b)(1)(B) ("In	the State's A-1 FEB.
		carrying outthe Plan, the Secretary shall integrate	
		the [1999 Approved Plan] with ongoing Federal	
		and State projects and activities"); 33 U.S.C. §	
		2282a(f)(1)(A)(i) ("assessments for a water	
		resources project shall include recommendations	
		for alternatives that, as determined in	
		accordance with the non-Federal interest for the	
		project, promote integrated water resources	
CRYSTAIS-8	03-30-2012	We recommend that the Corns make the CEPP a	Please refer to response to CRYSTA1S7 3.30.2012 above
		truly integrated study that will allow all relevant	
		proposals and activities to be evaluated together.	
		This will facilitate transparency regarding	
		available land and funds for new projects, and	
		allow everyone to know the trade-offs inherent	
		in each element of these activities. It is also more	
		likely to identify a plan with the most benefits for	
		the least cost.	

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CRYSTALS-9	03-30-2012	Status of 2008 Lake Okeechobee Regulation Schedule (LORS 2008) The Corps' Scoping Response heightens our concerns about Lake Okeechobee water supply issues. In particular, the Scoping Response makes it appear that the Corps is using the CEPP to convert LORS 2008 from an interim to a long-term, effectively permanent regulation schedule.	CEPP assumed current operations of Lake Okeechobee (Lake Okeechobee Regulation Schedule (LORS 2008) in the future without project condition. The CEPP team recognizes that when it was approved LORS 2008 was identified as an interim schedule USACE expects to operate under the 2008 LORS until the earlier of (1) implementation of a new Lake Okeechobee schedule as a component of the system-wide operating plan to accommodate CEPP (Band 1 Projects) and the State of Florida's Accelera Projects, or (2) completion of HID seepage berm construction or equivalent dike repairs for reaches 1, 2, and 3. Until a new operating schedule is developed under a different, future study, LORS 2008 is the best estimate for future without project operations.
			Based on the hydrologic modeling conducted for the CEPP TSP (Alternative AR2), it is anticipated that changes to the 2008 LORS will be needed in order to achieve the complete ecological benefits envisioned through implementation of CEPP and to address the minor to moderate adverse effects indicated with future without project condition. The CEPP PIR will not be the mechanism to propose or conduct the required NEPA evaluation of modifications to the Lake Okeechobee Regulation Schedule. It is possible that future efforts to revise the Lake Okeechobee schedule may result in even greater benefits from the proposed CEPP features and provide innorvements to water sunoly for the IOSA.
CRYSTALS-10	03-30-2012	In its Final EIS for the LORS 2008 regulation schedule (which was adopted in the Record of Decision), the Corps stated: "The Corps expects to operate under the LORS until the earlier of (1) implementation of a new Lake Okeechobee schedule as a component of the system-wide operating plan to accommodate the Comprehensive Everglades Restoration Plan (CERP Band 1 projects) and the State of Florida's fast track Acceler8 projects, or (2) completion	CEPP assumed current operations of Lake Okeechobee (Lake Okeechobee Regulation Schedule (LORS 2008) in the future without project condition. The CEPP team recognizes that when it was approved LORS 2008 was identified as an interim schedule. USACE expects to operate under the 2008 LORS until the earlier of (1) implementation of a new Lake Okeechobee schedule as a component of the system-wide operating plan to accommodate CERP (Band 1 Projects) and the State of Florida's Acceler8 Projects, or (2) completion of HIO seepage berm construction or equivalent dike repairs for reaches 1, 2, and 3. Until a new operating schedule is developed under a different, future study, LORS 2008 is the best estimate for operations.

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		of the [Herbert Hoover Dike] HHD seepage berm construction or equivalent dike repairs for reaches 1, 2 and 3. [T]he Corps will timely shift from the interim LORS to a new schedule with the intent to complete any necessary schedule modifications or deviations concurrent with completion of (1) or (2). "LORS 2008 Final SEIS iv (Nov. 2007) (emphasis added).	
CRYSTALS-11	03-30-2012	The Corps' assurances that LORS 2008 would be a relatively short-term plan were part of the basis for many stakeholders in South Florida to not oppose it in 2008. At that time, the Band I Projects all were scheduled to be completed by 2015, which meant that LORS 2008 was projected to be in effect for only seven years.	CEPP assumed current operations of Lake Okeechobee (Lake Okeechobee Regulation Schedule (LORS 2008) in the future without project condition. The CEPP team recognizes that when it was approved LORS 2008 was identified as an interim schedule. USACE expects to operate under the 2008 LORS until the earlier of (1) implementation of a new Lake Okeechobee schedule as a component of the system-wide operating plan to accommodate CERP (Band 1 Projects) and the State of Florida's Acceler8 Projects, or (2) completion of HHD seepage berm construction or equivalent dike repairs for reaches 1, 2, and 3. Until a new operating schedule is developed under a different, future study, LORS 2008 is the best estimate for future without project operations.
CRYSTALS-12	03-30-2012	In its Scoping Response for the CEPP, the Corps now is indicating that LORS 2008 is a long-term, or even permanent, schedule. First, instead of assuming that LORS 2008 will no longer be in effect once the "Band 1 Projects" and the key HHD repairs are complete, the Corps now assumes it could remain in effect for the next 50 years regardless of those projects completion. The Scoping Response states that "[t]he future without project condition includes the assumption that the Herbert Hoover Dike (HHD) rehabilitation will be complete." Scoping Response, at 22 (response to FDACS-1). The Corps also assumes that the projects previously referred to as "Band 1 Projects" will be complete.	CEPP assumed current operations of Lake Okeechobee (Lake Okeechobee Regulation Schedule (LORS 2008) in the future without project condition. The CEPP team recognizes that when it was approved LORS 008 was identified as an interim schedule. USACE expects to operate under the 2008 LORS until the earlier of (1) implementation of a new Lake Okeechobee schedule as a component of the system-wide operating plan to accommodate CERP (Band 1 Projects) and the State of Florida's Acceler8 Projects, or (2) completion of HUB seepage berm construction or equivalent dike repairs for reaches 1, 2, and 3 Until a new operating schedule is developed under a different, future study, LORS 2008 is the best estimate for future without project operations. Based on the hydrologic modeling conducted for the CEPP TSP (Alternative 4R2), it is anticipated that changes to the 2008 LORS will

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		the future without project condition includes the	be needed in order to achieve the complete ecological benefits
		"First Generation" and "Second Generation" (i.e.,	envisioned through implementation of CEPP and to address the
		the Corps is assuming that they will be	minor to moderate adverse effects indicated with future without
		completed), which when combined with the CEPP	project condition. The CEPP PIR will not be the mechanism to
		itself, represents all of the projects formerly	propose or conduct the required NEPA evaluation of modifications to
		identified as the "Band 1 Projects," In other	the Lake Okeechobee Regulation Schedule.
		words, both of the triggers for revision of the	
		"interim" LORS 2008 will occur prior to, or	
		concurrent with, the CEPP. Yet, the Corps Scoping	
		Response indicates that "the LORS 08 schedule	
		will be used" as the future without project	
		condition. The Scoping Response also states that	
		"[t]he CEPP study will not be the mechanism for	
		changing LORS," Scoping Response, p. 22	
		(response to FDACS-1), and that "any analyses	
		conducted during the study will not predetermine	
		a change to the lake schedule, as a result of	
		additional CERP project implementation," id. at	
		38 (response to Crystals-3). If the CEPP is the	
		"CERP project implementation" that will trigger	
		changes to LORS 2008 (as indicated by the Corps	
		in 2008), then the logical time to consider such	
		changes to the lake schedule would be in the	
		CEPP itself. The Corps' refusal to even consider	
		such changes is inconsistent with its	
		commitments made in 2008.	
CRYSTALS-13	03-30-2012	Second, the Corps appears to be changing its	CEPP assumed current operations of Lake Okeechobee (Lake
		triggers for revisiting LORS 2008. In 2008, the	Okeechobee Regulation Schedule (LORS 2008) in the future without
		Corps identified two separate triggers for	project condition. USACE expects to operate under the 2008 LORS
		revisiting LORS 2008; completion of a subset of	until the earlier of (1) implementation of a new Lake Okeechobee
		HHD rehabilitation measures ("seepage berm	schedule as a component of the system-wide operating plan to
		construction or equivalent dike repairs on	accommodate CERP (Band 1 Projects) and the State of Florida's
		reaches 1, 2, and 3"), and the completion of the	Acceler8 Projects, or (2) completion of HHD seepage berm
		CERP Band 1 Projects and Acceler8 projects. LORS	construction or equivalent dike repairs for reaches 1, 2, and 3. Until
		2008 Final SEIS iv (Nov. 2007) (quoted above).	a new operating schedule is developed under a different, future

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		Now, in its Scoping Response, the Corps states only that "LORS will be revisited upon completion of HID modifications, Scoping Response at 37 (control of principle 3). This party formulation	study, LORS 2008 is the best estimate for future without project operations.
		response to crystats-2), this new formulation completely drops the trigger associated with completion of the early CERP projects (which	based on the hydrologic modelling conducted for CEPY 15P (Alternative 4R2), it is anticipated that changes to the 2008 LORS will be needed in order to achieve the complete ecological benefits.
		will be fully accomplished through the CEPP itself), and it apparently makes consideration of	envisioned through implementation of CEPP and to address the minor to moderate adverse effects indicated with future without
		a new regulation schedule dependent on completion of all HHD repairs, which will not be	project condition. The CEPP PIR will not be the mechanism to propose or conduct the required NEPA evaluation of modifications to
		done for many years. The effect is to allow the Corps to keep LORS 2008 in effect for decades.	the Lake Okeechobee Regulation Schedule.
		contrary to what the agency told stakeholders only a few years ago.	
CRYSTALS-14	03-30-2012	The Corps' failure to consider changes to LORS	The 1999 Approved plan in regards to component F states "The Lake
		2008 in the CEPP also appears inconsistent with the 1999 Approved CERP Plan. The 1999	Okeechobee Regulation Schedule will be modified in order to take advantage of the additional storage facilities identified in the
		Approved Plan includes a new "Lake Okeechobee	construction features. Two additional zones will be added to the
		Regulation Schedule (F)" as a Plan component.	schedule. The first zone will trigger discharges to the north of the
		ine purpose of that component, in part, was to develop operational rules for "discharges " to	Lake reservoir and the Evergiades Agricuitural Area reservoir. The second higher zone will trigger the Lake Okeechobee aquifer storage
		the Everglades Agricultural Area reservoir."\Final	and recovery facilities to begin injecting water from the Lake." The
		CERP Integrated Feasibility Study and	CEPP planning effort did not include the storage area north of Lake
		Programmatic EIS, at 9-29 (1999). According to the 1999 Approved Plan. "Imlost of the	Okeechobee or the system of ASR components of CERP." The CEPP planning effort did not include CERP components for storage north
		operational features will be implemented in	of Lake Okeechobee or the regional system of ASR wells around Lake
		association with related construction features."	Okeechobee,
		Id. For the "Lake Okeechobee Regulation Schedule (F)" component, one of the logical times to	The 1999 Approved Plan did not envision higher stages in Lake
		implement it would be in plan development for	Okeechobee associated with storage for water supply, rather, that
		the "Everglades Agricultural Storage Reservoirs	the Lake stages would remain within the ecologically desired
		(G)" component, which the Scoping Response	envelope more often due to the storage available both north and
		indicates is part of the CEPP. For the Corps now to	south of the Lake as well as the system of ASR wells around the Lake.
		say that it will not consider operational changes	
		to Lake Okeechobee in association with the CEPP	Operational changes were incorporated into the hydrologic modeling
		is inconsistent with the 1999 Approved Plan	conducted for the CEPP alternatives, including the TSP Alternative

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	Note the control of t		4R2, in efforts to optimize CEPP system-wide performance within the existing flexibility of the 2008 LORs. More specifically, the hydrologic modeling of the CEPP alternatives included proposed revisions to the 2008 LORs decision tree outcome maximum allowable discharges dependant on the following criteria: Lake Okeechobee inflow and climate forecasts (class limits were modified for tributary hydrologic conditions, seasonal climate outlook, and multi-seasonal climate outlook, stage level fregulation zone), and stage trends (receding or ascending. While some refinements were made within the operational flexibility available in the 2008 LORs, consistent with the original modeling intent, the final operational assumptions ultimately extended beyond this flexibility due to adjustments made to the tributary/climatological classifications. Additional information and documentation of these assumptions can be found in the Engineering Appendix (Appendix A).
CRYSTALS-15	03-30-2012	Many stakeholders are very concerned that the CORPs is abandoning its commitments made in 2008 that the LORS 2008 schedule would be an interim schedule, and is making the LORS 2008 schedule permanent. This has the potential to undermine the CEPP, because it affects whether stakeholders will have the benefit of the Savings Gause enacted in 2000 with the changes made in the CEPP. The Corps can address this issue by agreeing to consider changes in the Lake Okechobee regulation schedule as part of the CEPP and defining the water supply level of service in effect in 2000 as one of the goals of the CEPP. Also, if the Corps' statements in the CEPP. Also, if the Corps' statements in the CORP 2008 were mistaken, then the agency should immediately darify its position.	The CEPP TSP provides an increment of restoration of the central Everglades ecosystem as well as an increment of improvement to water supply for other water-related needs. The CEPP TSP, Atl 4R2, provides for a 14 MGD and 5 MGD increase in water supply to users in Broward and Miami-Dade County respectively while maintaining the current level of water supply cut-backs to the Lake Okeechobee Service area. Based on the hydrologic modeling conducted for the CEPP TSP (Alternative 4R2), it is anticipated that changes to the 2008 LORS will be needed in order to achieve the complete ecological benefits be needed in order to achieve the complete ecological benefits envisioned through implementation of CEPP and to address the minor to moderate adverse effects indicated with future without project condition. The CEPP PIR will not be the mechanism to propose or conduct the required NEPA evaluation of modifications to the Lake Okeechobee Regulation Schedule.
CRYSTALS-16	03-30-2012	Study Biases Related to Lake Okeechobee Water Storage. The Scoping Response also indicates that the Corps is building an inappropriate bias into the CEPP study related to storage and water	Study Biases Related to Lake Okeechobee Water The 1999 Approved Plan for CERP did not envision higher stages in Storage. The Scoping Response also indicates that Lake Okeechobee associated with storage for water supply, rather, the Corps is building an inappropriate bias into that the Lake stages would remain within the ecologically desired the CEPP study related to storage and water envelope more often due to the storage available both north and

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		levels in Lake Okeechobee, in response to a	south of the Lake as well as the system of ASR wells around the Lake.
		comment about the need for more water storage	
		in the lake, the Corps stated that it would not	Based on the hydrologic modeling conducted for the CEPP TSP
		consider changes to LORS 2008 in the CEPP and	(Alternative 4R2), it is anticipated that changes to the 2008 LORS will
		justified that decision based (in part) on the	be needed in order to achieve the complete ecological benefits
		impacts of higher water levels on lake ecology.See	envisioned through implementation of CEPP and to address the
		Scoping Response, at 37 (response to Crystals-2).	minor to moderate adverse effects indicated with future without
		By so doing, it appears the Corps is taking "off	project condition. The CEPP PIR will not be the mechanism to
	•	the table" additional water storage in the lake	propose or conduct the required NEPA evaluation of modifications to
		based on the Corps' pre-study decision that the	the Lake Okeechobee Regulation Schedule. It is possible that future
		alleged impacts of higher water levels on in-lake	efforts to revise the Lake Okeechobee schedule may result in even
		vegetation will outweigh any regional benefits	greater benefits from the proposed CEPP features and further
		that could be provided by additional water	improvements to water supply for the LOSA.
		storage in the Lake. This will bias the CEPP's	
		analysis, because it means that the Corps is	
		unwilling to consider alternative plans which	
		would reduce storage needs in the EAA and still	
		avoid significant impacts to in-lake resources. We	
		believe that is entirely inappropriate.	
CRYSTALS-17	03-30-2012	The Corps also appears to be assuming that LORS	The Adaptive Protocols is a part of the SFWMD's operational
		2008 will be implemented in the future, without	recommendations provided to the Corps.
		the adaptive protocols adopted by the South	
		Florida Water Management District in 2010. When	
		LORS 2008 was implemented, the SFWMD	
		developed protocols designed to provide	
		operational guidance in areas where the	
		schedule alone is ambiguous. Among other	
		adjustments, the protocols reflect the desire to	
		eliminate Base Flow releases to the St. Lucie	
		Estuary when the LORS 2008 schedule assumed	
		they would be made. Recent modeling of the	
		"Future Without Project Condition" (which will	
		be the "no action" afternative under NEPA) shows	
		significant reduction in the Lake stage and a	
		noticeable increase in water shortage severity in	

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		several drought years. One of the causes of this reduction in the level of service for water supply is likely the way the LORS 2008 Schedule was assumed to be implemented for the FWO condition.	
CRVSTALS-18	03-30-2012	The Corps' failure to consider in-lake storage alternatives is inconsistent with important policy directives. The Florida Legislature made an express statutory finding "that additional water storage may be an appropriate use of Lake Okeechobee." § 373.4592(1), Fla. Stat. The Corps justified the coost of repairs to the HHD, as recently as last month in the FY 2013 Civil Works Budget Detail prepared for Congress, on grounds that such repairs "will allow the Corps to hold more water sakely in the Lake, Lenable the Corps to release excess water to the estuaries - in a more controlled, less damaging fashion," and "enable the Corps to release more water during dry periods to benefit the ecosystem of the Everglades." The National Research Council, in its 2008 Second Blennial Review of the CERP, stated that "rehabilitation of [HHD] may offer synergistic opportunities for creating additional CERP storage and managing water levels for the benefit of the littoral zone, and the costs, benefit, and hydrological and ecological viability of these options should be considered in any analysis of CERP storage alternatives." National Research Council, Progress Toward Restoring the Everglades: The Second Blennial Review, 182-83 (2008). The Corps should consider such options in the CERP in light of these statements and recommendations.	The benefits to HHD rehabilitation articulated in the Corps' FY 2013 Civil Works Budget Detail are correctly stated. It should be noted that changes to the Water Control Plan governing lake operations will also be required in order to realize the benefits of HHD rehabilitation. Such changes will be conducted in accordance with NEPA. The CEPP TSP, Alt 4R2, provides for a 14 MGD and 5 MGD increase in water supply to users in Broward and Miami-Dade County respectively while maintaining the current level of water supply cutbacks to the Lake Okeechobee Service area.
CRYSTALS-19	03-30-2012	This study does not comport with NEPA. The Corps is indicating that it is not going to consider	A full array of reasonable alternatives was considered. A full explanation of how the final array of alternatives was determined is

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IFTTER	Date	AGENCY/PLIBLIC COMMENT	CORPS RESPONSE
	אברפוסבו	reasonable alternatives to its proposals to store water in the EAA as opposed to in Lake Cokeechobee.All environmental impact statements require an analysis of reasonable alternatives to a proposal.42 U.S.C. § 4332(2)(C)(iii).Corps project recommendations, in particular, are required to include alternatives that "promote integrated water resource management," without "budgetary or other policy" constraints, 33 U.S.C. § 22824(f)(II/A-I/B). Agencies cannot categorically refuse to consider reasonable alternatives because the agency has pre-decided a discretionary policy choice, 40 CFR §§ 150.2.(e), 1502.14(a), -(c). The Corps, use of a "no action" alternative which does not represent reality, as discussed above with regard to the SFWMD operating protocols, is also inconsistent with NEPA. The Corps should take an unbiased, hard look at the environmental choices and include alternatives that would use the lake for water storage instead of adding all new storage alternative	provided in Section 3 of the Draft CEPP PIR/EIS.
CRYSTALS-20	03-30-2012	Modifications to the Lake Okeechobee Regulation Schedule may be the easiest and least expensive alternative to provide additional water storage for environmental and human needs. We urge the Corps not to "stack the deck" at the start of the CEPP process, by refusing to even consider such modifications	The CEPP TSP, Alt 4R2, provides for a 14 MGD and 5 MGD increase in water supply to users in Broward and Miami-Dade County respectively while maintaining the current level of water supply cutbacks to the Lake Okeechobee Service area.
CRYSTALS-21	03-30-2012	Loss of Agricultural Water Supply, As indicated in our earlier comments, Florida Crystals continues to be very concerned about the potential loss of water supply as a result of the CEPP. The Scoping Response does not dispute that LORS 2008	The CEPP TSP, Alt 4R2, provides for a 14 MGD and 5 MGD increase in water supply to users in Broward and Miami-Dade County respectively while maintaining the current level of water supply curbacks to the Lake Okeechobee Service area.

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		provides less water supply to agricultural uses than the previous WSE regulation schedule. See Scoping Response at 39-40 (response to Crystals-10). The Corps, own documents indicate that the LORS 2008 has a significant negative effect on agricultural water supply;attached is a 2007 Corps analysis which shows major negative impacts to agricultural water supply from that schedule. History has borne out those projections, as the water shorage in the spring of Z011 was made more severe by the releases of water from the Lake under the LORS 2008 Schedule. We are very concerned that the CEPP appears in contrary to the Savings Clause in WRDA 2000 as a result of its approach to water storage in Lake Okeechobee	Savings Clause requirements were a constraint for CEPP. The Savings Clause analysis is located in Annex B of the Draft PIR/EIS.
CRYSTALS-22	03-30-2012	Recent presentations of hydrologic modeling undust so for the "Future Without Project Condition" reinforce our concerns about impairing the protections of the Savings Clause. In those presentations, water supply restrictions in the Lake Okeechobee Service Area are projected to increase. It is impossible based on the information presented to specify what is causing the impact but at least one of the reasons is likely to be the assumptions about the C-44 Reservoir, a CERP project. The Project Implementation Report for the Indian River Lagoon (IRL) indicates that operation of the C-44 Reservoir will lead to a significant reduction in flow to the lake in lowwater conditions. The Savings Clause prohibits the derriment of existing water uses without ensuring that there is a replacement source available. The IRL Project Implementation Report failed to consider the impact of this reduction in flow to	Savings Clause requirements were a constraint for CEPP. The Savings Clause analysis is located in Annex B of the Draft PIN/EIS.

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Appendix C.3

LETTER	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		Lake on other users in the Lake Okeechobee Service Area. The fact that the Corps appears to be ignoring the Savings Clause in its analyses of other CERP components, and is implementing the C-44 project despite Savings Clause issues, is troublesome	
CRYSTALS-23	03-30-2012	Once again, the Corps should avoid the problem of waters supply reductions by considering changes to the lake regulation schedule to provide additional storage	The CEPP TSP, Alt 4R2, provides for a 14 MGD and 5 MGD increase in water supply to users in Broward and Miami-Dade County respectively while maintaining the current level of water supply cutbacks to the Lake Okeechobee Service area.
CRYSTALS-24	03-30-2012	Limitation of CEPP to 1999 Approved CERP Plan. We previously commented that WRDA 2000 and the Programmatic Regulations require the Corps to the 1999 Approved Plan. The Scoping Response did not seem to respond to that point. We recognize the recommendation of the National Research Council that the Corps should follow an "Incremental adaptive restoration" approach, and we support the concept of adaptive management in the scientific context. However, that recommendation does not override the limitations in Congress' approval of the 1999 Approved Plan the procedural requirements contained in the Programmatic Regulations or the requirements in NEPA concerning supplementation of the 1999 Programmatic Els for the CERP. If the Corps believes it can make significant changes to the 1999 Approved Plan through the CERP Project Implementation Report, then it needs to explain the legal basis for that position	Consistent with the other planning efforts conducted to date on CERP components, the CEPP effort was purposefully focused on the components of CERP that would provide an initial increment of restoration for the central everglades ecosystem. It was recognized in the 1999 Approved Plan (CERP) that implementation would require that the plan be divided into smaller implementable packages of components. It was further recognized that an adaptive assessment strategy requires incremental implementation of the plan components and each increment would be planned and designed to carry the program one step closer to the ultimate goal of ecosystem restoration (Central and Southern Florida Project Comprehensive Review Study, Final Feasibility Report and PEIS, page 10-7).
CRYSTALS-25	03-30-2012	Water Quality Planning Considerations. The	All alternatives were evaluated to be in compliance with WQBEL.

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		Scoping Response does not explain how the Corps can plan the CEPP without knowing the land requirements and water quality targets of the ongoing water quality litigation. See Scoping Response at 99 (response to Sugar-8). The Corps should identify those requirements as soon as possible, because they are fundamental planning constraints which both limit the types of planning constraints which both limit the types of planning constraints which both limit the cepP and whether the SFWMD has the financial resources to satisfy the CEPP.	
CRYSTALS-26	03-30-2012	Water Supply Planning Considerations. The Scoping Response indicates that the Corps will include goals and performance measures related to improved water supply and economic wellbeing, in response to our suggestion. Scoping Response at 49 (response to Sugar-9). We appreciate the Corps response to Sugar-9) where goals for the CEPP, and that only "Walzer retained in the Lake that is not identified for the natural system may be available for water supply," Corps Presentation to PDT Regarding CEPP "Revised Objectives," Slide 4 (March 26, 2012). By this language, the Corps is subordinating the water supply needs of the people of South Florida to other goals, which is contrary to the 1999 Approved Plan and WRDA 2000. The Corps does not need to put local communities in a subservient position in order to achieve the environmental goals of the CEPP, and should treat the water supply objective as co-equal with other objectives in the CEPP.	Water supply performance for the LOSA was considered in the formulation of management measures for storage and treatment. Water supply performance was measured by calculating the total cuthack volumes (water demand not met) for the eight worst drought years during the 41 year period of analysis. Water supply performance was included as part of the screening criteria during plan formulation of the storage and treatment features within the EAA. The option recommended in the final array of alternatives is a 28,000 arce FEB. The 28,000 arce FEB with Lake Okeechobee operations optimized for water supply maximized benefits while minimizing costs. See Section 3 and Appendix E.1 of the PIR/EIS for further explanation of how this measure was incorporated into plan formulation.
CRYSTALS-27	03-30-2012	Improved Flood Protection. The Scoping Response The CEPP planning effort did not 1 indicates that the Corps will include "protecting to flood protection within the EAA.	The CEPP planning effort did not formulate plans for improvements to flood protection within the EAA.

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LETTER	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
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CRYSTALS-28	03-30-2012	Restoration/Rehydration of Holey Land and Rotenberger Wildlife Management Areas. In response to our comment that the Corps should consider improvements to the Holey Land and Rotenberger Wildlife Management Areas as part of the CEPP, the Scoping Response indicates that "I'the Corps will consider information from previous studies undertaken by the SFWMD to consider this option and determine if applicable for inclusion in the CEPP." Scoping Response at 40, 50 (response to Crystals-11 and Sugar-13), We are unaware of any studies by the SFWMD which address this issue; please identify them so Florida Crystals and others can provide input.	Inclusion of structural and operational modifications to existing infrastructure and/or construction of new features in Holeyland and Rotenberger WMA was considered during initial plan formulation efforts for the CEPP (refer to Appendix E for details), Features within the WMA were not further pursued given water quality concerns.
CRYSTALS-29	03-30-2012	In addition, given the Corps' effort to fast-track the CEPP, it is unclear how much time the Corps has to determine if the Holey Land and Rotenberger components of the 1999 Approved Plan should be included in the CEPP. We continue to recommend that the Corps incorporate these components into the CEPP.	Inclusion of structural and operational modifications to existing infrastructure and/or construction of new features in Holeyland WMA was considered during initial plan formulation efforts for the CEPP (refer to Appendix E for details). Features within the WMA were not further pursued given water quality concerns.

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LETTER	Date	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CRYSTALS 30	10-16-2012	This letter supplements previous letters (1-20-2012 and 3-30-2012). CRYSTALS supports restoration of S Florida and CEPP will represent a great step forward if important projects can be brought online sooner.	Thank you for your comment.
CRYSTALS –	10-16-2012	We recommend that the Corps re-initiate formal scoping pursuant to NEPA. The previous scoping period was premature because no proposal had been developed.	A series of NEPA Final Array public meetings were held at 5 locations throughout south Florida December 10-13 and 18, 2012. These public meetings presented the process, the final array of alternatives and discussed the NIPA analyses that will be used on the final array. The CEPP NEPA and plan formulation process includes a robust public process that provides numerous opportunities for agency, final and public participation.
CRYSTALS -	10-16-2012	We have several comments how the Corps should approach analysis of alternatives to the CEPP proposal for the EAA. 1. Most important is the consideration of alternatives. 2. The Corps should disclose the alternatives to be analyzed prior to issuance of the draft EIS/PIR. 3. The screening evaluation in the PDT process does not constitute consideration of alternatives for purposes of NEPA. We recommend that if the Corps intends to consider alternatives developed and rejected in the PDT process, that it fully analyze those alternatives in the draft EIS/PIR and identify the criteria by which they were rejected in the PDT process. We don't think this has been done to date. 4. The Corps should analyze an array of reassonable alternatives, and not limit its analyzed thoroughly (through the recent NRC guid-	1 and 2. See response above to CRYSTALS-2. The final array of alternatives were disclosed in December 2012 and are included in this draft PIR/EIS. Public comments have been encouraged throughout the entire CEPP plan formulation process. 3. Information exchanged during PDT meetings was considered in selection of the final array of alternatives for detailed evaluation process are included in Section 3 - Formulation of Alternative Plans in the CEPP Draft PIR/EIS. 4. A full array of reasonable alternatives was considered. A full explanation of how the final array of alternatives was determined is provided in Section 3 of the Draft CEPP PIR/EIS. 5. Each of the project performance measures for the CEPP planning effort are derived from those performance measures approved for used by RECOVER and the USACE. These performance measures were used to evaluate the final array. Please refer to Section 3 of the Draft PIR and Appendix E for criteria and cost information. 6. The CEPP TSP, Alt 4R2, maintains the current level of water supply curbacks to the Lake Okeechobee Service area and provides a 14 Mismi-Dade County, respectively.

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		5. The Corps should be clear in the draft EIS/PR regarding the evaluation of criteria being applied to each alternative. At 8-29-2012 PDI meeting, cost was a primary consideration in rejecting a 12-foot deep reservoir on the A-2 site. The Corps should identify the relative costs of all these options and the level of costs which it deems to be cost prohibitive. 6. Concerned the Corps is not developing alternative in the PDI process which would address the serious water supply concerns of agricultural interests and public utilities. 11999 plan was premised on both maintaining and improving water supply for existing uses.	
CRYSTALS – 33	10-16-2012	Since it would take relatively little additional storage in Lake Okeechobee to address the water supply concerns of agricultural and urban uses, we once again ask the Corps to examine such options.	The CEPP TSP, Alt 4R2, provides for a 14 MGD and 5 MGD increase in water supply to users in Broward and Miami-Dade County, respectively, while maintaining the current level of water supply cutbacks to the Lake Okeechobee Service area.
CRYSTALS 34	10-16-2012	The draft PIR/EIS should address whether there is a plan to re-wet the FEBs with local runoff to prevent release of phosphorus from the dried soils to the STAs.	The A-1 FEB and A-2 FEB will operate as a singular FEB. The FEB will accept runoff from the Everglades Agricultural Area (EAA) when the FEB depth is below 3.8 feet (ft). Water from Lake Okeechobee will be accepted when the FEB depth is below 2.0 ft. Discharges from the FEB will be discontinued when FEB depth is below 0.5 ft. No supplemental water supply will be provided to the FEB to prevent dry outs.
CRYSTALS – 35	10-16-2012	A 12-foot reservoir should be analyzed in the NEPA document, even though it was screened out as an alternative due to cost. It was identified as providing the greatest benefits for the Everglades.	The FEB is the least cost option. The 12ft Reservoir provides the greatest benefits to the everglades, however, the cost is prohibitive given the marginal increase in benefits and the 12ft Reservoir configurations were eliminated from further consideration. A full description of the evaluation and screening are provided in Section 3 of the CEPP Draft PIR/EIS.
CRYSTALS – 36	10-16-2012	The Corps should analyze an alternative regarding excess storage in Lake Okeechobee rather than the	See response above to CRY5TALS-33.

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		A-2 FEB.	
CRYSTALS 37	10-16-2012	The Corps should analyze an alternative that would use the A-2 site for agricultural water storage.	Alternatives for the CEPP were formulated and evaluated based on achievement of project objectives. Project objectives identified for the CEPP are consistent with those of CERP. Section 60.1 (h) of WADA 2000 fututhorizing CERP) states "the overarching objective of the Plan is the restoration, preservation, and protection of the South Florida ecosystem while providing for other water-related needs of the region, including water supply and flood protection. Project objectives are included in Section 1 of the Draft CEPP Project PIR and EIS.
CRYSTALS 38	10-16-2012	We recommend the Corps also include alternatives related to the delivery and/or management of Lake Obsechobee water before it reaches WCA-3A. The Corps should analyze and consider the reduction of phosphorus using the EAA canals, therefore bypassing the STAs.	Proposed non-CERP projects, including the SFWMD Restoration Strategies project, will ensure that water considered part of the existing water budget will undergo treatment to meet applicable water quality standards.
CRYSTALS . 39	10-16-2012	Another alternative that needs to be the potential for excess lake water to be delivered to the Holey Land and Rotenberger Wildlife Management Areas.	Inclusion of structural and operational modifications to existing infrastructure and/or construction of new features in Holeyland WMA was considered during initial plan formulation efforts for the CEPP. Features within the WMA were not further pursued given water quality concerns.
CRYSTALS -	10-16-2012	How is the Corps going to integrate its NEPA review of the two FEBs proposed for the A-1 and A-2 sites? They're clearly connected actions, with cumulative impacts.	The proposed FEB on the A-1 site was analyzed and included in the "No Action Alternative" in the draft EIS/PIR. The Draft EIS for the Everglades Agricultural Area A-1 Shallow Flow Equalization Basin was posted for public review on February 22, 2013.
CRYSTALS -	10-16-2012	We hope that agency analyses of phosphorus reductions that will result from use of the A-1 FEB are correct. Also hope that addition of "new" water from Lake Okeechobee will not diminish the phosphorus reduction performance of STA3/4 and Compartment B, or cause a violation of WQBEL Need to state that if there is a violation, EAA runoff would be the first to be treated.	Water quality for the A-1 FEB is presented in the Draft EIS for the Everglades Agricultural Area A-1 Shallow Flow Equalization Basin. The analysis of the A-2 FEB is presented in the CEPP Draft PIR/EIS.
CRYSTALS - 42	1-4-2013	NEPA requires analysis of all alternatives and their environmental effects, including water quality. We	NEPA requires analysis of all alternatives and their Environmental Effects were analyzed for all alternatives , including environmental effects, including water quality. We water quality in Section 5 and Appendix C.2.1 and Appendix C.2.2 in

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		ask that the draft PIR/EIS analyze the likely water the CEPP Draft PIR/EIS.	the CEPP Draft PIR/EIS.
		quality effects of each alternative in the WCA's and	
		ENP.	
CRYSTALS - 1-4-2013	1-4-2013	In addition, Corps should also demonstrate various	In addition, Corps should also demonstrate various All alternatives were evaluated to be in compliance with WQBELs.
43		alternatives will result in compliance with WQBELs	
		in the NPDES permits for STAs and provisions of the	
		Consent Decree. Such analysis is appropriate in	
		light of the federal agencies' recent court decision	
		which indicated that compliance with NPDES	
		permits for STAs would not necessarily lead to	
		compliance with the Consent Decree.	

Table C.3.2-3. Comment response matrix of emails received through the Task Force.

CORPS RESPONSE		Thank you for your comment.																		
AGENCY/PUBLIC COMMENT	ARTHUR R. MARSHALL FOUNDATION & FLORIDA ENVIRONMNETAL INSTITUTE (AM)	First, we have a group of Summer Interns also	monitoring the phone conference broadcast (our	cyberlink server is down). In attending the recent	Central Everglades Project Planning (CEPP) process,	the interns have been fully briefed on the	implications of CERP Table 5-1 Goals & Objectives;	they also appreciate the CEPP Project Delivery Team	(PDT) relating CEPP Goals and objectives, AKA	Management Measures, to CERP Table 5-1 Yellow	Book goals as required by the 2011 Adaptive	Management Integrated Guide (AMIG) activity 5	protocols. However when the Task Force goals	were mentioned starting with getting the water	right and ending with foster compatibility with the	built up environment, there were a bunch of	puzzled looks, on faces not previously exposed to	the TF Goals. Perhaps there should be some	attempt at fostering compatibility of CEPP and the	TE goals, as a hetter framework of how the TE sees
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Email	ARTHUR R. MA	AM - 1																		

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		CEPP meeting TF goals, even though CEPP is an Adaptive Management application of CERP, and therefore subject to CERP Table 5-1.	
AM - 2	6/19/12	Second, the CEPP PDT approach has not death directly with the ANIG activity 4 requirements that a Conceptual Ecological Model (CEM) be developed for projects such as CEPP with a given boundary per all the other regional CEM's developed for CERP; the CEPP boundary remains fuzzy under the wishbone concept per CEPP PDT presentations. As indicated previously, the CEPP PDT is using a Stogen CEM, and apparently the Total System CEM, and "performance measure transfer". This obviates a full consideration of historic significant habitat between Lake O and WCA-3 including the pond apple forest and the sawgrass plains. Our view is that this is a CEPP deficiency because the approach insufficiently goes in the direction of CERP Table 5-1 Goals & Objectives, especially regarding the ecological goals, including habitat and functional value of the pond apple forest and the sawgrass plains.	Project objectives for the CEPP are consistent with the goals and objectives of the C&SF Restudy. Project objectives for the CEPP are presented in Section 1 of the PINFES. The project team has utilized performance measures to evaluate alternative plans. These performance measures were developed from the Lake Okeechobee, Northern Estuaries and Greater Everglades Ridge and Slough Conceptual Ecological Models (CEM).
A A A . 3	6/19/12	Third, we appreciate that there will be an ecosystem services valuation (ESV) of the CEPP tentatively selected plan. However it would appear a better approach to use an ESV approach for analysis of various alternatives to depict benefit to cost as a measure of return on investment (RO) for final selection decision-support for the configuration with the greatest ROI. The habit unit approach appears much less viable.	In practice, USACE ecosystem restoration studies typically measure the ecosystem benefits of alternative plans in terms of habitat units. Habitat units are basically the product of acraege and a Habitat Subabitat burbitat burbitat burbitat burbitat or 1, with 1 being a pristine acre. The with-project and without-project habitat units are calculated and the difference between the two is known as the habitat unit lift. This habitat unit lift is the burbitat unit lift is the burbitat unit lift in the about and cost-effectiveness among possible alternative plans. Consistent with Corps guidance, habitat units will be used for the CEPP as the basis to compare alternatives and select a plan. The ecosystem services evaluation will be conducted only on the recommended plan. The Ecosystem Services report will be provided separate from the Draft PIR/EIS after it has

Email	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
			been through the review process.
AM - 4	6/19/12 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	Finally, especially on behalf of our Arthur R. Marshall Summer interns who are looking at the viability of using ESV in the CEPP configuration selection process, we appreciate that many of the Task Force members and supporting staff, and CEPP DT members were at the GEEX/INTECOL conference. The interns used this a networking opportunity to expand their knowledge on the CEPP process and related matters such as Sea Level Rise. Our letter of 12 June to the Honorable Rachel Jacobson amplifies.	Thank you for your comment.
PUBLIC			
Don Wisdom	7/25/13	The major project that I was not able to complete during my tour as the DE in Jacksonville was restoration of the Kissimmee River to its natural flow. I am still very interested in anything that I can do to buy Big Sugar out and restore the natural flow. Would you please send me a map depicting before and after the agricultural interests were able to divert the Kissimmee's natural flow to the east and west. Please include property owned by agriculture and that which is government owned.	In terms of property maps and pre and post maps, SFWMD should have the information you are requesting.
Jack Moller (JM) - 1	9-27-2012	Too much water in the Everglades, should not be adding more because of the stress on the wildlife. Have said this since 1999 without a suitable response.	Environmental effects within northern WCA 3A are described in Section 5 of the Draft PIR/ES and Appendix C.2.1 and Appendix C.2.2. Implementation of the CEPP is expected to rehydrate much of northern WCA 3A by providing a means for redistributing treated STA discharges from the L-4 and L-5 in a manner that promotes sheetflow and by removing the drainage effects associated with the Miami Canal. Implementation of any of the CEPP alternatives is expected to significantly improve conditions for aquatic invertebrates, fish species, amphibian and reptile communities, and resident bird species. CEPP implementation may negatively affect mammals dependent on upland habitat due to increased water flow.
JM - 2	9-27-2012	ENP wants 100% of historic annual water volumes,	The objectives of CEPP are not to flood WCA 3A. The increase in

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		but only 50% of the Everglades is left. If ENP owned the WCAs they would not do this because they know if will destroy the Everglades. Question no one has answered: How can a flood today become tomorrow's CERP goal and call this restoration?	water flow to WCA 3A will occur primarily in the dry season to reverse the current trend of water levels in northern WCA 3A receding well below the ground surface for long periods of time, which has resulted in extensive and documented losses of peat soils from oxidation, muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 3-ft in some areas (Refer to Section 1.2). The CEPP TSP incorporates the Zone A schedule included in the Current operation of WCA 3A under ERTP. As such, inflows from Lake Okeechobee would not occur when stages in the WCA 3A are above Zone A consistent with current operations. Additionally, Alt 4R2 includes increased outlet capacity from WCA 3A to better manage extreme wet events.
			Alt AR2 generally produced improved inundation patterns in northwestern WCA 3A reacting over 70 percent of habitat unit restoration targets for ridge and slough. Water depths for Alt AR2 in northeast-ender ARC 3A are more conducive to shorter hydroperiods sawgrass marshes. Alt 4R2 would act to rehydrate northern WCA 3A promoting peat accretion, reducing the potential for high intensity fires and promoting transition from upland to wetland vegetation.
- 3 M	10-25-2012	Don't trust models on elevations/depths because they can't give me a duplicate graph with water depths/elevations in the WCAs along transect L2 using the same data points and processes as graphs presented few weeks ago. Need to get them to talk about seepage control from S side of WCA2B and all along US 27 boundary area; there were boils during 1990s flood. Do not think all tree islands are needed to fill the Miami Canal. Talked about this during 10-22 meeting.	The regional hydrologic models proposed as the primary tools for evaluation of the final array have been validated through the Corps Engineering Model Certification process established under the Engineering Model Certification (E&C) Science and Engineering Technology (SET) Initiative and/or reviewed during an Agency Technology (SET) Initiative and/or reviewed during an Agency Technology (SET) Initiative and/or reviewed during an Agency Technology (SET) Initiative and/or reviewed during an Agency Technology (SET) Initiative and/or reviewed during construction of the spoil mounds located adjacent to the Miami Canal would remain. In addition, mounds would be created during construction of Alternative 4R2 approximately every 1 mile from 5-8
		 Problem with entire CERP project is DOJ/NPS won't allow this or that. They're only interested 	to F-73,

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		in protecting their property. • Want answers to all of my questions sent to whole group that attended 10-22 meeting	The location of seepage management features were identified during evaluation for CEPP. Seepage management features were determined to be needed along the southern portion of WCA 3B and northern portion of ENP. Answers to questions submitted to the USACE during the plan formulation for the CEPP are provided within basis.
- 4 A	10-25-12	The data they presented today was not what they presented on 10/22/12. Today they talked about lowering the water levels from what they desired before 10/22/12. BUT, the amount of water they want to push, after reducing the amount, into the WCAs is still 60% of the time over schedule. This is NOT restoration but clearly a calculated desire by some to bring about a drastic change in the Everglades and to full fill what Aaron Hegar told Tom Shirley and I which was if they do what they want to do they will change the area from Everglades to a littoral zone type habitat. Their plans are very wrong.	The CEPP TSP incorporates the Zone A schedule included in the current operation of WCA 3A under ERTP. As such, inflows from Lake Okeechobee would not occur when stages in the WCA 3A are above Zone A consistent with current operations. Therefore, CEPP does not propose to push water into WCA 3A when it is over schedule. Additionally, Alt AR2 includes increased outlet capacity from WCA 3A to better manage extreme wet events. The objectives of CEPP are not for flood WCA 3A. The increase in water flow to WCA 3A will occur primarily in the dry season to reverse the current trend of water levels in northern WCA 3A receding well below the ground surface for long periods of time, which has resulted in extensive and documented losses of peat soils from oxidation, muck fires and resultant lowering of left ground surface elevations in northern WCA 3A by up to 3-ft in some areas (Refer to Section 1.2).
JM - 5	10-25-12	And, once the things below are done what is the time line for the ACOE to put their "finished stamp" on the project design? What happened to the yellow book plan of building a pumping station at the end of L-28, where we call Sands Point? This pump was to pull water around the N end of the WCA3N and push it into the heart of Shark Slough valley and on to ENP. Is this pump still being built? Why not? Son't know if you're still watching. The conversation from 230 to about 250 was all about how we can use EDEN and field data to get to the depiction of	The CERP Plan did not include a pump station at the end of L-28. The CERP Central Lakebelt Storage component included measures to capture excess water in WCA-2B and diver water through improved L-37 and L33 borrow canals to Northeast Shark River Slough to meet stragets or to the Central Lakebelt Storage Area. The Central Lakebelt Storage area component is not included in this first increment of restoration of the central Everglades.

Email	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		data you're looking for I think. The other point that was that some of the analysis has to wait through the screening phase until we have an RSM model run which is happening over the next few weeks.	
9 - ML	10-25-12	Example of what I was talking about at 10-22 meeting: In the data reported at the 10-25-12 meeting the water gauge numbers do not match the water gauge numbers that we are accustom to seeing and using to calculate water elevations and depths. Why did the CRP people change these numbers? If you recall I said the same while on WRAC many years ago. My friend thinks the Corps is cooking the books. Bosses need to ask why engineers are changing base reporting data and not using what is in place. Where is conversion table to allow folks to follow this ever changing data reporting strategy?	The regional hydrologic models proposed as the primary tools for evaluation of the final array included the Regional Simulation Model Basins (RSMBN) and the Regional Simulation Model Glades-LECSA Implementation (RSMGI). The iModel was also used as part of the plan formulation process for the CEPP. These models were developed by the Hydrologic and Environmental Systems Modeling Department of the FWMD. Output from the regional models was readily provided to the public during plan formulation for the CEPP. Locations at which model output is provided (i.e. Gages, Indicator Regions, Transects etc.) is standard and has not changed from prior use of these models for other CERP projects.
Z - Wf	10-26-12	To help with better identification of the area of WCA3N that is to have water managed so that the saw grass is major vegetation type to survive CERP water management goals I have created the following map from Google Earth. The area north of the red line should be considered saw grass prairies with the area west of the cangel line being the strongest or healthiest saw grass prairie habitat. The area north of the red line was never ridge and slough, see federal map below. Consider the area west of the orange line as being a transition zone between the deepner water in the ridge and slough area to the west of the Miami River and the historical saw grass prairie. This is strictly my personal opinion and I look forward to other folks thoughts on this topic. (map attached with line drawn on it)	Thank you for your comment and information Alt 4R2 generally produced improved inundation patterns in northwestern WCA 3A reaching over 70 percent of habitat unit restoration targets for ridge and slough. Water depths for Alt 4R2 in northeastern WCA 3A are more conducive to shorter hydroperiods sawgrass marshes. Alt 4R2 would act to rehydrate northern WCA 3A promoting peat accretion, reducing the potential for high intensity fires and promoting transition from upland to wetland vegetation.
JM-8	7/12/13	This, below, was taking from one of the documents from Monday's, July 8, 2013, meeting. It was in the	Open water = unvegetated areas such as ponds, lakes, rivers, bays and estuaries.
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		back up material-if needed section.	
		What is the biological differences between "open	Open marsh = open water-dominated freshwater marsh with a mix of sparse graminoids and/or herbaceous vegetation (spikerush, low
		water" and "open marsh"?	stature sawgrass, arrowhead, swamp-lily, to name a few).
		Also can you tell me how many acres of each habitat type, "open water" and "open marsh" are in ALT4 or	No one has done the calculation in acres between the two for the entire CEPP domain.
		the most recent model run i.e. ALT4R1 etc.?	ELVeS is the model, so we can run it if needed.
Larry Fink (LF)	7-6-2012	Quoting from Page 160 of 267 of the NAS CROGEE	Response provided by Shannon Estenoz (DOI): To my knowledge the
,		Biennial Report on Everglades Restoration	Task Force does not have, at this time, intentions to proceed on a
		422&page=9): "ELM appears to be the only water	specific course of action refaced to this subject. Off the substained of your comment, please see the perspective expressed in italics by DOI
		quality model that has been approved for use by the	technical staff below DMSTA is the most widely used and accepted
		USACE and that is actually used in CERP project	water quality model in South Florida for evaluation of Stormwater
		planning (although not widely so). However, it	Treatment Area (STA) design and performance, it has been used by
		Central Everglades Planning Project	especially those related to STA performance, and has been
		(USACE and SFWMD, 2012). Other water quality	certification by the USACE for use in the Central Everglades Planning
		models that seem essential to an ongoing	Project, For further information on the model's wide use and
		Central Everglades Planning Project, such as the	otance, please see tl
		Dynamic Model for Stormwater Treatment	site http://www.wwwalker.net/dmsta/index.htm
		areas (DMSTA), have not undergone a formal, external near review. External near review is	www.wwwaiker.net/dmsta/index.htm . Also, please refer to a recent mear-reviewed article multished in a scientific fournal by Drs
		important, particularly for models that are used	Walker and Kadlec on the use of DMSTA (below). W.W. Walker Jr. and
		extensively in the planning process, and peer	R.H. Kadlec (2011). Modeling phosphorus dynamics in Everglades
		review of the DMSTA is a high priority." Please	wetlands and Stormwater Treatment Areas. Critical Reviews in
		advise how the SFERTF intends to proceed in this	Environmental Science and Technology, 41:430-446.
		regard, USEPA's acceptance of DMSTA as an expedient notwithstanding.	
LF - 2	7-9-2012	I have read Dr. Walker's web page and the	DMSTA is the most widely used and accepted water quality model in
		referenced article. Despite its general acceptance,	South Florida for evaluation of Stormwater Treatment Area (STA)
		growing accolades, and pending certification by	design and performance. It has been used by DOI, EPA, SFWMD,
		USACE, DMSTA is limited in the water quality	USACE, and others for multiple purposes, especially those related to
the designation of the same and		parameters it can model, i.e., P, and the physical,	STA performance, and has been validated and approved for use by

Email	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		chemical, and biological processes important to the	the USACE for use in the Central Everglades Planning Project.
		transport, transformation, storage, and release of P	
		from the various compartments of engineered and	At this time, regional predictive tools are not available for pollutants
		impounded natural wetlands. The former deficiency	other than phosphorus, While progress is being made on
		is only problematic if no surface water constituent	understanding the factors that affect mercury cycling within the
		other than P is to be considered as a constraint on	Everglades, no modeling tools are available that can predict the
		restoration infrastructure design, operation, or	effects of CEPP hydrology on mercury methylation dynamics. Given
		maintenance and/or a source of environmental	the strong correlation between atmospheric mercury deposition and
		impacts deriving there from. Based on the CEPP	methylmercury concentrations in fish and surface water, the most
		process to which I have been exposed to date, I am	effective means of reducing mercury concentrations is to reduce
		under the impression that no surface water	atmospheric deposition. To this end, the FDEP is developing a state-
		constituent other than P is being recognized as a	wide TMDL for mercury emissions. Achieving the guidance
		constraint in evaluating restoration design,	concentrations will require national and international cooperation far
		operation, or maintenance alternatives. This	beyond the control of any local or regional agency.
		includes mercury, despite the fact that the	
		Everglades and Florida Bay are listed as mercury-	Time to recovery was not added to the evaluation per this
		impaired waters under the Clean Water Act. Please	commenter's request; however, the timing of habitat recovery is
		disabuse me of this impression if you have evidence	incorporated into the benefits evaluation for all alternatives. The
		or intention to the contrary.	timing of habitat recovery is also implicitly incorporated into the
			calculation of the project's average annual ecosystem benefit.
		The latter deficiency is only problematic if the time-	
		to-recovery of the Everglades and Florida Bay is not	
		of primary importance in evaluating restoration	
		alternatives without and with remediation of	
		contaminated sediments. Based on the posted	
		rejection of my recommendation to include time-to-	
		recovery in the alternatives evaluation table, the	
		time-to-recovery of the system is not considered of	
		primary importance in the CEPP process. SFERTF is	
		dependent on SFWMD staff to perform the required	
		water quality modeling to evaluate the water	
		quality impacts of the preferred restoration	
		alternative and various viable alternatives that will	
		be considered in the EIS. SFWMD has not reported,	
		is not reporting, and will not report time-to-	
		recovery information as part of the evaluation of	

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Email	Date	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		design, operation, or maintenance alternatives according to the CEPP process unless directed to do so by SFERFF and it is my impression that SFERF has no intention of directing SFWMD staff to report time-to-recovery or to add time-to-recovery as a performance objective, evaluation criterion, or water quality constraint as part of the restoration alternatives evaluation process. Please disabuse me of this impression if you have evidence or intention to the contrary.	
lF-3	6-19-2012	(1) What objective criteria must each of the following sovereign submerged lands and uplands conditions or activities meet to be considered inherently incompatible with the attainment of Everglades restoration water quality performance objectives within 10 years of completion of all CEPP projects: (a) in general, (b) Florida's 10 ppb Total Phosphorus Water Quality Standard in particular; (c) EPA's 0.3 ppm Total Mercury Water Quality Criterion in fish flesh in particular. (i) unremediated in-place contaminated Lake Okeechobee sediments? (ii) unremediated in-place contaminated Everglades Agricultural Area (EAA) soils? (iii) unremediated in-place contaminated Everglades Agricultural Area (EAA) soils?	Each CEPP project component will be evaluated for compliance with state and federal water quality criteria as part of the CERPRA permitting process initiated during plans and specifications development. To address EPA's 0.3 ppb Total Mercury Water Quality Criterion in Fish flesh, the FDEP is developing a state-wide Total Maximum Daily Limit for mercury. Regarding contaminated soils or sediments in South Florida, any required remediation will continue to be part of project planning and land management processes.
LF 4	6-19-2012	(1) How is the development of Florida's statewide mercury TMDL now on public notice being	There is no information available that either sulfur or mercury will be an insurmountable barrier to restoration. The FDEP's October 29,

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Email	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		coordinated with CEPP to ensure that the sulfate- mercury relationship is not an insurmountable barrier to Everglades restoration?	2012 Draft TMDL for Mercury focuses on the control of in-state sources of atmospheric and point source mercury emissions. The draft TMDL specifically exempts non-point sources of mercury such as stormwater from the TMDL waste load allocation. The CEPP project is not asource of point source mercury emissions and therefore will not be affected directly by the FDEP mercury TMDL. There is no draft or planned TMDL for sulfur.
- 5 - 5	6-19-2012	(1) When will the State of Florida numerical Class III 10 ppb Water Quality Standard (WQS) for Total Phosphorus (TP) be met at the points of discharge to the Northern Everglades under the announced agreement between EPA and FDEP? (2) What independent water quality modeling of the combined operation, maintenance, and remediation of Lake Okeechobee, the EAA, the proposed shormwater Treatment Areas did EPA perform using EPA-approved water quality models to validate the agreed-upon plan for attainment and maintenance of Everglades 10 ppb TP WQS within the agreed-upon timefame?	(1) The September 2012 Consent decree requires that the Water Quality Based Effluent Limitation (WOBEL) be fully met after the completion of the SFWMD's Restoration Strategies plan in 2025. This dealine is specifically written into NDDS and EFA permits. (2) The Restoration Strategies plan was modeled using the DMSTA model. This modeling output was reviewed by experts at DOI and EPA. The modeling report is publically available on the SFWMD website. DMSTA modeling was performed by the SFWMD for the CEPP project to determine the effect of the A2 FEB on phosphorus concentrations of water entering northern WCA3A. This modeling effort was reviewed by DOI and USACE experts as part of the CEPP planning process.
Dave Zuhusky	8/8/13	Can you tell me what the timeline is for the construction of the C43 reservoir project that is supposed to be built along the Cabosaharthee River. Our waters in the Pine Island Sound and beaches near Ft. Myers are being fouled and polluted by the discharges from take Okeechobee. Also, do you know of ways i could learn more about the overall cleanup of the Everglades. Thank you for your assistance.	The Caloosahatchee River (C-43) West Basin Storage Reservoir project Record of Decision was transmitted to Congress for authorization on April 13, 2011. We are currently waiting for the next Water Resources Development Act (WRDA) to authorize this project and a few others. The last WRDA was in 2007 and we are hoping for another one soon. I have attached the current Fact Sheet for that project. For more information about this project and the other Comprehensive Everglades Restoration Plan (CRRP) projects please go to http://www.evergladesplan.org/index.aspx. This web site will give you information on all of the CBP projects as well as upcoming public meetings, events and documents out for review.

Appendix C.3

Table C.3.2-4. Comment response matrix for comments received during the Final Array Public Meetings.

Public	Date	A CTAICV (DUDI IC CORRESTOR	Public Date Activities Connection
Meeting	Received	AGENCT/PUBLIC CUMINIEM!	CORPS RESPONSE
Central Evergla	des Planning Pr	Central Everglades Planning Project Public Meeting - Final Array December 10, 2012 Estero, FL	Estero, FL
RaeAnn Wessel, Sanibel Captiva Conservation Foundation	12/10/12	I thank you, the Corps, for bringing the road show to Fort Niyers. Often we are the neglected stepchild that gets forgotten and left in a closet and we have to travel all over the state. So, I'm sorry there aren't more here, but I appreciate you being here and bringing this information.	Thank you for your comment.
		Our comments are that the tentatively selected plan needs to promote the goal and vision of Everglades restoration, using the variety of initiatives and projects that have been proposed, including bridging. Tamiami Trail, decompartmentalizing Water Conservation Areas 3A and 3B, Northeast Shark River Slough, and Everglades National Park, to provide water into Everglades National Park.	
		We are particularly taken with Alternative 4 as the best alternative for restoring natural flow to the Everglades and a flow-way, respecting and enhancing the soils, the topography, using, in other words, the natural system to dictate more rather than pumps and some other methods for -for moving water around, that having an influence on water quality, natural ecosystems, while not impacting health and - and human safety.	
RaeAnn Wessel, Sanibel Captiva Conservation Foundation	12/10/12	The sheet-flow ridge and slough topography are the most defining characteristics of the Everglades, and reestabilishing them should be a top priority of CEPP. The tentatively selected plan needs to address restoring flow into and out of Water Conservation Area 3B. And the way that that's done leads us to Alternative 4.	Thank you for your comment.

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Public Meeting	Date	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
0		The removal of the L-29 along the bottom of Water Conservation Area 3B and allowing less forced flow, removing the barrier and allowing the water to move more naturally will provide better conditions for fisheries.	
		We think that Alternative 4 is the best step in decompartmentalizing the system, which has been highly engineered and partitioned, so that we can reconnect and make operational — well, that makes no sense. Alternative 4 addresses more of the aspects of restoring historic flow as opposed to just operational considerations.	
		Reducing soil oxidation and loss, restoring the degraded ridge and slough habitat, and providing for more natural recession of water across the Everglades landscape, again, we feel Alternative 4 provides more of those alternative benefits.	
		Benefits specific to fish and wildlife, you know, there is a whole range of wildlife that is supported by restoring and managing the restored Tree Island, function of a restored Tree Island, improving fishery conditions by removing L-29, restoring flows in Water Conservation 3B, where there has not been successful wading bird activity and nesting due to the lack of sloughs for fishing.	
		A flow-way such as that proposed in Alternative 4 will increase biological connectivity, open corridors for fish and wildlife to more freely across boundaries in search of seasonal refuge. Also, the Alternative 4 will have benefits to fish and	
		wildlife from protected climate change and sea level	

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Public Meeting	Date Received	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
		rise, with improved habitat, increased connectivity, maximizing seasonal concentrations of food, more corridors for movement, reducing wildlife strandines. For those reasons that we see that	
		Alternative 4 provides benefits.	
RaeAnn Wessel,	12/10/12	On another note, more maybe to the second increment, we just want to be on the record as	Thank you for your comment.
Sanibel		documenting the need for dry-season flows to the	
Conservation Foundation		system, the Caloosahatchee connection today to Lake Okeechobee.	
		My manufacture outs of tents of the contract of	
		we want to make sure that, in the process of starting kind of at the bottom of the system and	
		working up through the central core, we don't	
		forget that the estuary on the west coast is very	
		intricately linked today to the flows coming out of	
		Lake Okeechobee. So, while we fully support this	
		proposal to restore conveyance in a flow-way down	
		to the south through the Everglades, we want to	
		make sure that there is a placeholder for those	
		needed flows, especially dry season and drought	
Brad Cornell	12/10/12	I do want to add my perspective from the west	Thank you for your comment
Anduhon		coast policy work that Anduhon does over here	
Florida		with the Corkscrew Swamp Sanctuary and Collier	
		County Audubon Society.	
		Thank you very much for coming and allowing us to	
		hear and see some of the perspective on this final	
		array, as well as the comment. We are obviously	
		very concerned with the incredible degradation that	
		has gone on for many years, including to the	
		northern estuaries, so we appreciate the objective	
		of this Central Everglades Planning Process. It's been	
***************************************		sorely needed for a long time, I think everybody	
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Public Meeting	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		recognizes that. And we certainly appreciate and	
		recognize the tremendous amount of work that the	
		Corps and the Water Management District have put into fulfilling this objective of a broader percentive	
		on project permitting and implementation. This is	
		this is a huge objective that we really fully support	
		and are very appreciative of the work that you have	
Brad Cornell,	12/10/12	e specifics, looking at the alternatives that you	Thank you for your comment.
Audubon			
Florida		moving water south is being addressed by all of	
		them. Obviously, this is a phase one. We anticipate	
		that the subsequent phases are going to be moving	
		even more into some of the areas that will benefit	
		some of the western Everglades that we work in	
		here and the northern estuaries, but this increment	
		is absolutely essential as phase one. As part of that,	
		any alternative that you were looking at, we would	
		like to see at least an increment of restoration of	
		Water Conservation Area 3B, so Alternative 4 has	
		the most benefits for 3B that we see that makes a	
		lot of sense.	
		And as the modeling goes forward, subsequent to	
		these sessions of public input, perhaps there will be	
		even more benefits or facets of the other	
		alternatives that could be incorporated into this	
		Alternative 4 that would make sense, too, and	
		provide even more ecological benefits. Obviously	
		our perspective is let's get the biggest bang for our	
		buck, our restoration buck, and we see Alternative 4	
		as being that at this point.	
Central Evergla	ides Planning P	Central Everglades Planning Project Public Meeting - Final Array December 11, 2012 Homestead, FL	
Laura	12/11/12	I wanted to thank you for coming all the way down Thank you for your comment.	our comment.
Reynolds,		here to Homestead, It's a lot closer to my house,	
Tropical		We represent about 4,000 people in Dade County	

Public	Date	•	
Meeting	Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
Audubon		and Northern Monroe County. And I think that	
Society		some of these plans are really visionary	
Laura	12/11/12	We have supported Alternative 4. It's what the	Thank you for your comment.
Reynolds,		Everglades Coalition has put forward and I'm a	
Tropical		board member of the Everglades Coalition. And I	Construction of the ~ 8,5 mile levee in WCA 3B connecting the L-67 A
Audubon		was glad to hear Kim talk about making sure that	levee to the L-29 levee would be constructed in accordance with
Society		Biscayne receives the same amount of water that	USACE Engineering Design and Levee Safety Criteria and consistent
		it's currently receiving. I think that's really im-	with design criteria jointly developed by the SFWMD and the Corps.
		portant. I know that there are efforts to even	
		make sure more water is delivered to Biscayne.	
		So when we're moving forward, I just want to cau-	
		tion that we do have another national park to con-	
		sidel and another estuary. So even though I'm ex-	
		cited about Aitelliative 4, I tillink tilat its vely vi-	
		Sionary, I want to make sure that we keep in mind	
		the other system that is to the east.	
		And I do want to mention a few specific details	
		about Alternative 4. I think the reason why this is	
		the best plan really comes down to sheet flow and	
		really connecting the north to the south through	
		Tamiami Trail. So it's really the only one that repre-	
		sents real decompartmentalization, because vou're	
		connecting the north to the south.	
		So I want to urge all the agencies that are involved	
		in the planning effort to try to think outside the	
		box. I know that there are rules and regulations	
		and permitting for that yellow structure there,	
		which I would like to call a temporary berm. But I	
		know it's been defined in your alternative as a	
		levee. I'm hoping that in being visionary that you	
		can try to re-define a feature to complete the	
		most exciting restoration project, the largest res-	
		toration project in the world; and try to maybe	
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CORPS RESPONSE		Thank you for your comment.	Thank you for your comment.
AGENCY/PUBLIC COMMENT	even make this a habitat feature, an upland habi- tat feature, or something other than a concrete levee. You know, that's the vision that I have. I don't think it's put there to protect the road. I think it's there so you can actually connect the north to the south. And I just want to encourage you to keep that vision exciting and try to think outside the box.	Thank you so much for being here. As Laura said, this is closer tous. So really thank you for driving across the entire state in a couple days. I think it's one of these things, it's really important to start to relay to a bunch of different communities; not only things like this that we're rome in general and how much work we still have going on. We often get the sense that people don't quite understand that. They either think we're done or we're or not doing anything. So thank you for helping clear that up.	As you all know probably, this has been a huge priority for Aduluon for many, many years. In addition to not forgetting that there's another national park, it seems often the water conservation area is the section that is forgotten. People think of Lake O, they think of the estuaries, and then they think of Everglades National Park. And we're forgetting what a hugely important habitat we have right there in the middle. So focusing on the Central, we're just so happy that we're here. I think on that note we're really hoping that this first increment we know, of course, it is a first increment. But we are hoping we can get as much focus and as much restoration into Water Conservation Area 3B as possible.
Date Received		12/11/12	12/11/12
Public Meeting		Julie Hill- Gabriel, Audubon Florida	Julie Hill- Gabriel, Audubon Florida

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Public	Date	A A CENCY (B) 181 (C COMMACN T	CODDE DECOUNCE
Meeting	Received	AGENCY) FUBILIC COMMINENT	COMPS RESPONSE
Julie Hill-	12/11/12	We do also see that Alternative 4 is a good way of	Thank you for your comment.
Gabriel,		getting us there and hope that we can do as much	
Audubon		as we can to restore the habitat for that region as	Alternative 5 was screened out because this configuration would like-
Florida		well, in addition to 3A, and probably in the most	ly cause undesirable conditions in WCA-3B during high water condi-
		cost effective way possible.	tions by routing large portions of WCA-3A flows through WCA-3B.
			During drought events there is concern that there is not enough stor-
		I would like to also note that there was an Alterna-	age in the A-2 FEB to prevent increased probability of damaging peat
		tive 5, which would have almost definitely been the	fires in WCA-3B. Further loss of soils through fire or soil oxida-
		most expensive alternative. But now that that is not	tion/subsidence would only compound our difficulties in moving flows
		something that's being proposed here, you know,	out of WCA-3B south across Tamiami Trail.
		we certainly want to remember that that was sort	
		of the outlier. This is not the outlier.	
		The state of the s	
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		table. And even if there is potential for taking cer-	
		tain features out of one and moving them into oth-	
		ers, that we keep an open mind to some of the fea-	
		tures that were in Alternative 5 as we move for-	
		ward.	
Aida Arik,		Thanks for coming down to Homestead. I'd just	Thank you for your comment.
Everglades		like to emphasize the restoration objective of	
Foundation.	_	connecting the system and how Alternative 5,	Alternative 5 was screened out because this configuration would like-
		which was taken off the table, represents that	ly cause undesirable conditions in WCA-3B during high water condi-
		full restoration connection by degrading 67A	tions by routing large portions of WCA-3A flows through WCA-3B.
		and the L-29 levee. And really we knew that	During drought events there is concern that there is not enough stor-
		there were issues that couldn't be resolved in	age in the A-2 FEB to prevent increased probability of damaging peat
		the time line that we have for this increment of	fires in WCA-3B. Further loss of soils through fire or soil oxida-
		CEPP.	tion/subsidence would only compound our difficulties in moving flows
			out of WCA-3B south across Tamiami Trail.
		So what we need to do is to take a bold step for-	
		ward towards connection of the system. And I think	
		Alternative 4 is that bold step forward where we	
		really are doing something towards connecting the	
		system, where Alternative 2 falls short of that. It's	
		just not enough connection between 3A and 3B.	

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Public Meeting	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		So I urge you to strongly consider Alternative 4 as that full step towards re-connection of the system and the restoration objective that you're trying to achieve.	
Savannah Howington, Public	12/11/12	I'm actually representing myself. I do work for Ever- glades National Park, but I'm not representing the park or the National Park Service. I have read up on my own on these projects, and there are just a cou- ple points I'd like to make. I want to be careful that my comments aren't confused with any park official comments.	Thank you for your comments. A recreation plan has been developed and included in CEPP Project PIR and EIS in Appendix F.
		One of those is my concern that the people who make their living off of recreational activities have — I'm sure they have their say — but they are left with opportunities to pick up some of the less passive recreation that's happening in the park and move it north to the water conservation areas.	
		Some of that is air boating. I'd like to see a continuity of that recreation that is passive -such as canceing and hiking and even camping -actually cross that road, if possible. I don't know that camping is possible in the water conservation are as. But it would be great if those were promoted somehow. Maybe that would happen in the long somehow. Maybe that would happen in the long somehow.	
		uture. But most or use becaution areas is hunting and fishing. And I think there would be some, you know, agreement that popular activities in the park -because the park is beautiful and it is pristine -can be moved up to the conservation areas more along with this project that would increase its promotion and popularity and, gosh, having fun.	

Public	Date	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
Savannah Howington, Public	12/11/12	The other one is in my personal opinion -again, this is my personal opinion. I think the Blue Shanty is an eyesore. I see it there. I don't like it. If I drive down the road, I won't like it. I can probably see it from the roads.	Thank you for your comments. An invasive Species Management plan has been developed and included in CEPP Project PIR and EIS in Annex G. The evaluation and cost analysis of the final array is in Section 4 of the Draft PIR/EIS.
		Granted, I support national parks and the aesthet- ic values that we try to maintain. But I don't want to see that. I also think the cost value you'll find is high, you know; where if it's coming from, it may come from the levee that's being downgraded. But there's no guarantee of that.	
		So looking at the other alternatives, I would like to promote. Alternative 2. Because for one thing, I think there's a greater chance of that area filling up with water with more gated structures. There is three on that one. I understand there's four in 3. But I think if they're moved down – and I'm not a hydrologist. But it just looks on the page like it might fill up in that area anyway greater.	
		And the third thing is that in this one, Alternative 4, there's a little X there; which is the levee being downgraded to be west of the shanty where it enters the park. What we have is a problem with exot ic species. And it's because of the canals that are all over the Everglades. And when the levee is downgraded, then it becomes a stream. And even the smallest exotic fish can get larger once it's outside of the canal. And there's a pared structure there in Alternative 2.	
		from what I'm just visualizing, it might help prevent the larger exotic species entering the park. And that would help the park, of course. And it	
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		would prevent in the long term problems that may come up in NEPA. It's going to be something that they may have to consider anyway, But I think that is also positive.	
		The only question is the seepage area where they have two pumps, and it's a much smaller seepage wall. And, without the money in front of me, I'm	
		thinking, smaller walls are cheaper. And, we all like to control things. And with that second pump to the south, there is an easier chance to control that water from flooding Rendall or whatever	
		that area is up there, to the east of the park area.	
		And as much as I don't want to have pumps every- where, I think running a pump would in the long run	
		possibly be cheaper than building that wall and try- ing to maintain that wall at that length that it is in	
		Alternative 4.	
Central Evergla	des Planning P	Central Everglades Planning Project Public Meeting – Final Array December 12, 2012 Clewiston, FL	Clewiston, FL
Seminole	77/77/77	I'm the Director of Environmental Resource Management Department for the Seminole Tribe of	ine Jacksonville District and the South Florida Water Management District are actively engaged in efforts hosted by the South Florida
Tribe of		Florida, and tonight the Seminole Tribe is making	Ecosystem Restoration Task Force to identify and collect existing data,
Florida		these comments to preserve our rights under the Federal NEPA process.	identify data gaps, and to facilitate the development of appropriate models to address the Western Basins. Part of this process includes
		-	capitalizing on knowledge gained from the ongoing construction of
		We believe the western Everglades basins are an	the Seminole Big Cypress Critical Project. We will continue to use reg-
		integral part of the Everglades restoration and their contribution to the Sawerass Everglades system in	ularly-scheduled Seminole Big Cypress Critical Project, Project Deliv- ery Team meetings to collaboratively identify and address opportuni-
		the center of the Water Conservation Area that	ties to improve that project's performance. In the course of these
		we're speaking about tonight. Federally	meetings we collectively determined that addressing the operation of
		constructed infrastructure on the Big Cypress	the S-190 structure is a critical step prior to project modifications.
		Seminole Indian Reservation is underutilized due to	Accordingly, the Jacksonville District is currently scoping a plan for a
		the lack of ground and surface water during many times of the year to maintain its and other	modification to the existing 3-130 operations. The USACE Will contin-

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		surrounding natural resources. CEPP study area encompasses the western Everglades basins,	Florida regarding the Big Cypress Reservation.	
		including Lake Okeechobee, Big Cypress National Preserve and additional lands, as well as the Big		
		Cypress Seminole Indian Reservation, but in reality there has been no study of these areas and their		
		essential importance to the restoration of the whole system, no meaningful data collected, no		
		meaningful scientific research, no meaningful		
		modeling in the western basins.		
		Since no study of the western basins have been		
		done, none of the analysis done accounts for the		
		the L-28 gap south of Alligator Alley, commonly		
		known by the tribe as Mullet Slough. Western basin		
		options were screened out in early 2012, yet the		
		Big Cypress National Preserve and the additional		
		lands are part of CEPP indistinguishable from the		
		Water Conservation Areas.		
		Little attention has been paid to the northwest		
		corner of Water Conservation Area 3A where the		
		tribe has nonexclusive hunting and fishing rights		
		which are located in this area. Most attention is		
		paid to moving water through this area to Water		
		Conservation Area 3B and Everglades National Park		
		rather than restorning this area. Alternatives divert more water east rather than looking for additional		
		routes west and south.		
		And the tribe remains recognificate constinue to		
		contribute and participate with all of the federal		
		family of agencies and organizations to move this		
		project along. We do not want to stumble and keep		

Appendix C.3

Pertinent Correspondence Information

Public	Date	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
Meeting	Received	restoration from happening, but we want it, all of it	
		addressed. Thank you.	
Paul Gray, Audubon Florida	12/12/12	Audubon is a bird conservation organization that has been in Florida for more than 100 years, and we approach these projects as to how they can help bird populations, but it's also basically the habitat.	Thank you for your comment. Snail Kites are addressed in Section 5 of the Draft PIR/EIS and in Annex A in the Biological Assessment.
		When the National Academy of Sciences did their last peer review of Everglades Restoration, they looked at 10 ecosystem components, they call them, to see how well use're doing in trying to restore them or protect them, and only one of those 10 components got an F for a grade, and that was the Everglades Snail Kite, and the reason is Kites just cannot nest in water conservation areas in the Everglades successfully anymore, and, you know, this is a bird named for the Everglades itself and only found in Florida as far as the North American population, and part of the problem is hydrology. So happily Kites have done well in some other areas of the state, but we're really concerned about the Everglades; and they're one of the indicators the Everglades; and they're one of the indicators the Everglades; and they're one of the indicators the Everglades; and they're one of the indicators the Everglades is declining and really needs help quickly. So in that sense, we really appreciate you guys working so hard. We've been to a lot of these meetings, different people with the Audubon, and we support your efforts to try to find the quickers solutions we can to try to repair the Everglades.	

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Public Meeting	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
Paul Gray, Audubon Florida	12/12/12	We really liked Alternative 5 but realize it may be a little bit more optimistic or ambitious than we have time for in this effort, so we realize this is the first of many steps. We do favor Alternative 4. We think that's a good alternative. We also would ask that you don't keep these alternatives locked in yet, that maybe there's a little bit of mixing and matching from selected proponents and other alternatives so that we could add in whatever alternative you select. It might even help Mr. Tepper's concerns if we could do something for them. And so that's really our comments.	Alternative 5 was screened out because this configuration would likely cause undesirable conditions in WCA-3B during high water conditions by routing large portions of WCA-3B flows through WCA-3B. During drought events there is concern that there is not enough storage in the A-2 FEB to prevent increased probability of damaging peat fires in WCA-3B. Further loss of soils through fire or soil oxidation/subsidence would only compound our difficulties in moving flows out of WCA-3B south across Tamiami Trail.
		We really support what you guys are doing. We appreciate it. We think 4 is probably the best bet at this point, and we look forward to helping you.	
		One other remaining concern is WCA 3B. It's got the seepage problems, and we're afraid to put water in it, we understand that, but that is something we're going to have go back and that's something, if the Corps puts a little bit more water in there, it gives it a little bit more opportunity in the maanting So, we thank you.	
Central Evergia	ades Planning P	Central Everglades Planning Project Public Meeting - Final Array December 13, 2012 Stuart, FL	Stuart, FL
Karl Wickstrom, Public	12/13/12	I'm a suffering citizen of Stuart. Early in the presentation, you implied, you actually said it, that you would be diverting water that would be going	All of these alternatives involve diverting approximately 200,000 acrefect of water that would be normally discharged to the estuaries south into the flow equalization basin and subsequently into the
		to the estuaries otherwise south and you said that that's part of the program and you implied such all through at you had said. Isn't the fact, the fact is that you won't be moving a significant amount of that you won't be moving a significant amount of	Everglades. So that's 200,000 acre feet. Now that is not a huge fraction, a very large fraction of the water that's presently discharged to the estuaries. We recognize that. This project is really just an increment of a much larger restoration program. So what we're
		for instance, there were 900 billion gallons sent off	uying to do is come up with a plan which gives us the flexi inclement of restoration in the Central Everglades. We recognize there are

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Public Meeting	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		to the estuaries. So the question we all have is, how much of that 900 billion would these projects alleviate if they were all done? And from what we can see, it's almost nothing. So I think it's a deception, isn't it, to imply that you're going to help us a great deal?	unmet needs in the estuaries with this plan.
Mark Perry, Public	12/13/12	On all the footprints it doesn't look like the original footprint for the reservoir, A1 reservoir footprint and the Talisman. Does that include all the Talisman properties and the A1 reservoir property that was started under construction? It looks like on the old A1 reservoir, it actually went further north and then over.	It doesn't include the worn tract on the north end of Talisman AJ. That's been excluded from the project footprint. We had some agricultural chemical concentration on that parcel. And as a result of that, it's been excluded from the footprint for the AJ FEB. And then from an engineer and cost effective standpoint on A2, Talisman A2 parcel does include some additional land in the northwest corner that's not in the footprint. That's just due to the fact that from an engineering and cost standpoint, it's much easier to build a facility with four sides than one with seven. And so it doesn't include that small piece of land that's on the northwest corner of A2.
Pete Quasius, Collier County	12/13/12	represent Collier County and a number of the other West Coast stakeholders with concerns with water flows. I am very encouraged to see a crowd here tonight. Our meeting the other night only had a few folks. It's been decades that we've been asking for water to move south. Not only do we suffer the consequences of very damaging flows to the St. Lucie River and the Caloosahatchee Estuary, but we are also deprived of water in the Biscayne Bay and Forlida Bay and ultimately down to the 10,000 Islands. So I have a stake in this from both directions. Karl's question was right on point. From the beginning, the groups, which I represent, have been avid supporters of this process, fully recognizing that the 20,000 acre feet that you are talking	All of these alternatives involve diverting approximately 200,000 acre feet of water that would be normally discharged to the estuaries south into the flow equalization basin and subsequently into the Equalities 200,000 acre feet. Now that is not a huge fraction, a very large fraction of the water that's presently discharged to the estuaries. We recognize that. This project is really just an increment of a much larger restoration program. So what we're riving to do is come up with a plan which gives us the next increment of restoration in the Central Everglades. We recognize there are unmet needs in the estuaries with this plan.

CORPS RESPONSE		The project dependencies are included in the Implementation Plan in Section 6 of the Draft PIR/EIS.	Thank you for your comment.	
AGENCY/PUBLIC COMMENT	that we get in any single year and only a few percentage points if we have a stormy year. So we have been encouraged to think of this as a first increment and I would like to see a better articulation of what our long-term goal is to move significant quantities of water south. And if any of these alternatives start building the infrastructure necessary to allow that to happen sooner at least cost. So our primary interest is to move as much water south as quickly as possible at the least possible cost with the maximum environmental benefits.	But at the same time, we need to be assured that the other projects, which are necessary for our basin management, the C-44 reservoir and the St. Lucie, the C-43 reservoir and treatment areas in the Caloosahatchee are also prime candidates because we don't want to see a project built that puts us in competition for the water we need during the dry season and have relatively little impact on the damaging flows we get during the wet season. Thank you very much.	l actually am a business owner in Martin County and I'm a resident of Martin County. I'm not here representing anybody yet, to be truthful about the matter. Just to kind of say I offer my support. I, first of all want to thank the Corp and Water Management District for expediting this process. It's long overdue and I know you've been frustrated by it and so have many of the residents and businesses in South Florida. First of all, thank you for that. And second, I'd like to commend you, every time I listen to you, which has been probably over the last.	
Date Received		, 12/13/12	12/13/12	
Public Meeting		Pete Quasius, Collier County	Public Capra,	

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		nine months, you have answered every question, and if you haven't, you've researched it and got back to people, and that you should be commended for because it's a hard job.	
		This is a big project, it's world re-known and I think we need to understand that not everything will be perfect and we'll do the best we can. I think you've addressed just about everything that would be necessary for a project of this nature, storage, treatment, distribution, conveyance. I mean	
Joe Capra, Public	12/13/12	I personally see, the biggest problem is funding. And one thing we learned from this recession is we're going to have to economize. We economize on	The implementation plan in the draft report will lay out how we're going to implement TSP.
		everything nowadays and this project will be one of those that will have to be economized. And obviously, we did that on the land purchase. And unfortunately, well have to decide what did we get — the most, the best —the most for the least amount of money and that probably will determine what alternative we choose.	With respect to design and construction, that depends on Congressional authorization and appropriation after the planning process is complete.
		But as an alternative let's think about what could we expand on in the future when maybe we have a little more funding. So I think funding is going to be your biggest obstacle.	
		And the last thing I would like to say is I would like to see you expedite this process even further during the design and construction phase and in capturing the money. I think that's probably the biggest thing that we need to be thinking about, is let's think of a	

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Public	Date	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
Meeting	Received		
		time-line that's a little short-term. Poor Mark over	
		here I think has been involved with this probably for	
		40 years. You know, when I hear him talk about	
		that, I just can't believe somebody spends that	
		much time on this. I mean I'm a novice on this thing	
		but as much time as the people in this room have	
		spent on it, let's get something done and let's stop	
		arguing about it. Let's move forward and that's my	
		last comment. Thank you.	
Maggy	12/13/12	I represent my grandchildren. They're in college	Thank you for your comment. All of these alternatives involve divert-
Hurchalla,		now. I would like to echo and applaud what Collier	ing approximately 200,000 acre feet of water that would be normally
Public		County said. We feel the same way in Martin	discharged to the estuaries south into the flow equalization basin and
		County. We don't have the problem of needing	subsequently into the Everglades. So that's 200,000 acre feet. Now
		water, but we have the problem of not wanting it. 1	that is not a huge fraction, a very large fraction of the water that's
		would like to thank you for coming. I think you all	presently discharged to the estuaries. We recognize that. This project
		are well aware that we love to hate the Corp in	is really just an increment of a much larger restoration program. So
		Martin County. And it's because we want you to be	what we're trying to do is come up with a plan which gives us the next
		a little less aggressive in moving water to the	increment of restoration in the Central Everglades. We recognize
		estuary. I think that's a wonderful euphemism, Kim.	there are unmet needs in the estuaries with this plan.
		We'd like you to be a little less aggressive moving	
		water to the estuary. And yet we do realize the	
		limits in a project of this size and all these pieces of	
		getting it all done once and stopping everything as	
		soon as we want you to stop.	
		I flew over earlier this fall when they were doing the	
		discharges and I have not had an occasion before to	
		see how many miles and miles out to sea	
		you could see what was coming out of the St. Lucie	
		Inlet. I know that the IRL plan says if we don't	
		change our water management system, the St. Lucie	
		River will be irrevocably destroyed. That means	
		dead, gone. You do not get it back. And I think that	
		you will find in Martin County that there are more	
		people who realize that we need you not just to fix	
		the Central Everglades, not just to fix the Northern	

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Public	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
0		Everglades, not just to fix the St. Lucie Project but to fix the whole thing. Because if we don't have the plan for our water shed, because we have to economize for it, if we don't have the plan for the Caloosahatchee so that Lake Okeechopee can continue to function in a sustainable way with the West Coast, as well as the East Coast, if we take Ower Coast, as well as the East Coast, if we take Everglades Restoration Project, then or estuary is going to die.	
Maggy Hurchalla, Public	12/13/12	So we hate you. We love you. You're the only game in town. I like number four. Please be sure to include in your Environmental Assessment what will happen to us if you don't do this. Yeah, it's only 200,000 acre feet, but I'd like not to that 200,000 acre feet. Please tell them that they should not be economizing and not doing this now because it doesn't do it all. And the last thing I would say to you besides sincerely thank you very much for your efforts, is hurry up.	The Project Implementation Report/Environmental Impact Statement (PIR/EIS) include a description of the Future Without Project condition in Section a State details the future without CEPP in place. Section 4 Environmental Effects of the PIR/EIS compares the alternatives and Tentatively Selected Plan (TSP) to the Future Without Project Condition (No Action Alternative).
Bob Ernst, Public	12/13/12	Another inundated Martin County resident. As Maggy said, we really don't want the water you sent to us. Maggy also said she was worried about her grandchildren and we discussed our grandchildren the other day and that was certainly a concern. When I look at your posters back here and I saw that we're going to be still discharging 37 years from now, in 2050, we'll be still discharging ayter into the estuary, killing the estuary, killing our quality of life. Yes, I'm worried about my grandchildren. But I will never see, a guaranteed clean estuary. I will never see an estuary guaranteed not to get discharges and that's very disheartening. It probably would be better if I didn't come here to get that information.	All of these alternatives involve diverting approximately 200,000 acrefect of water that would be normally discharged to the estuaries south into the flow equalization basin and subsequently into the Everglades. So that's 200,000 acre feet. Now that is not a huge fraction, a very large fraction of the water that's presently discharged to the estuaries. We recognize that. This project is really just an increment of a much larger restoration program. So what we're france to do is come up with a plan which gives us the next increment of restoration in the Central Everglades. We recognize there are unmet needs in the estuaries with this plan.

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Public Meeting	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		It was also mentioned, this is a time with very constrictive funding. And here we are proposing a project that's going to do so little, spending the money that we're going to spend to do it and obtaining so little for it. It's hard to stand here and say thanks, you're taking that much water and then realize, in 2050, we're still going to be looking at the same discharges going into this estuary. And probably then it's not going to make any difference because the thing's going to be dead anyway.	
		speak but this is very, very disturbing. Thank you.	
Deborah Drum, Martin County	12/13/12	Deborah Drum here on behalf of the Martin County Board of County Commissioners. The Board of County Commissioners. The Board of County Commissioners and Martin County residents have supported the Indian River Lagoon Project South or IRL South Project and the Comprehensive Everglades Restoration Plan since authorization in the year 2000. Martin County has generated an unprecedented \$75 million for land acquisition cost through the commitment of local residents and acquired 45,000 acres for various CERP projects to reduce the runoff into the St. Lucie County River and to the Indian River Lagoon. The Martin County Board of County Commissioners has long advocated for completion of the C-44 reservoir and storm water treatment area, the first component of IRL Health Project to move to construction.	Thank you for your comment. All of these alternatives involve diverting approximately 200,000 acre feet of water that would be normally dischaged to the estuaries south into the flow equalization basin and subsequently into the Everglades. So that's 200,000 acre feet. Now that is not a huge fraction, a very large fraction of the water that's presently discharged to the estuaries. We recognize that. This project is really just an increment of a much larger restoration program. So what we're trying to do is come up with a plan which gives us the next increment of restoration in the Central Everglades. We recognize there are unmet needs in the estuaries with this plan.

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Public Ru	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		the need for a flow way south. And in September of this year, the Board adopted a resolution in support	
		of the Central Everglades Planning Project. We congratulate the Army Corp of Engineers and the	
		South Florida Water Management District on the	
		phase so that projects may more quickly move to	
		authorization, appropriation and construction.	
		Successful implementation of the Central Everglades	
		Planning Project is predicated upon completion of	
		the IKL South Project, we urge the U.S. Army Corp	
		constraints to stay the course and make swift	
		progress on these projects that are already	
		authorized. And in the case of the C-44 reservoir	
		and STA projects that are partially constructed at	
		last week's 16 County Ecosystem attended by	
		colonel Dodd, the county set their registative priorities for 2013 emphasizing completing existing	
		projects.	
		The nine county coalition has consistently stressed	
		in the past years, the need to get something done.	
		Such assumes substantial IRL South and Ten Mile	
		creek Keservoir implementation, that means	
		currently under construction, there is no guarantee	
		that future funding authorization will be made for	
		the remaining components of IRL South, including	
		the C-24 and 25 reservoir and Ten Mile Creek.	
		If these components do not come to fruition, then	
		the benefits to the estuary identified in the set	
		modeling results will not be realized.	

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AGENCY/PUBLIC COMMENT	Therefore, while we support CERP, the board expects the Corps can make full completion of the C-44 project an upmost priority. Thank you.	Mark Perry for Oceanographic and been a resident in this area for probably too many years to understand there's so much going on with the degradation of our estuary and also the Caloosahatchee.	You know when you look at the Comprehensive Plan and you try to figure out if it's going to actually do anything, even if we implemented all 68 components, we really scratch our heads because we still have the estuaries to deal with and there's not a plan, except for the plan six back in '93, 94 and '95 when they proposed to put water south into Miami and North New River Canal.	What really disappoints me now is that water that used to sheet flow. It took six to eight months to get to the Kissimmee chain of lakes down to the lake and then it took another 16 months flowing at about one mile every four days to get through that river of grass 60-mile wide swath all the way down south.	Since we've drained everything and shunted it out to the east and west, we've dumped about 1.7 billion gallons a day of fresh water that used to reach our aquifers, used to hydrate the Everglades and we dump it out to the east and west and to the Atlantic and Gulf of Mexico.
A	Therefore, v expects the (C-44 project	Mark Perry for (in this area for understand the degradation of Caloosahatchee.	You know wh and you try the anything, components, we still have not a plan, eand '95 when Miami and N.	What really of used to sheel to the Kissim and then it about one mriver of grass south.	Since we've to the east billion gallon reach our ad and we dump Atlantic and C
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Public Meeting		Mark Perry, Oceanographi c			

south into the flow equalization basin and subsequently into the Everglades. So that's 200,000 acre feet. Now that is not a huge to the estuaries. We recognize that. This project is really just an increment of a much larger restoration program. So what we're of restoration in the Central Everglades. We recognize there are

fraction, a very large fraction of the water that's presently discharged

trying to do is come up with a plan which gives us the next increment

unmet needs in the estuaries with this plan.

All of these alternatives involve diverting approximately 200,000 acre feet of water that would be normally discharged to the estuaries

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on the way it's killing our estuaries, it's killed a lot of systems and it's starving the Everglades. Now we

That waste of water itself is ludicrous. And besides,

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		shunt out east and west to the Caloosahatchee and St. Lucie about 64 percent of the 2.2 million acrefer that comos out of the lake. Another 39 percent of that water coming out of the lake goes to agriculture south of the lake. And only 13 percent of that water coming out of the lake actually gets to the Evergiades.	
		What happens to that 64 percent or 1.4 million acrefeet and you're telling us in this plan you are only doing 200,000 acrefeet, that's less than 1.4 percent of the whole water that actually, just on an average, goes to the estuaries. And that's been mentioned that we get a heck of a lot more during a lot of the times when there's no other alternative.	
		What needs to be done and year after year is the Corp comes to our presence and we get these huge discharges. They say I'm sorry, we feel your pain but we have no other alternative. We've got to have water moving south and we finally got everybody saying that and this alternative or these alternatives present ways for Central Everglades to fast track and hopefully get some projects. But as mentioned.	
		even if we get something started in ten years, by 2022, that's only going to take care of 200,000 acre feet.	
Mark Perry, Oceanographi c	12/13/12	So first and foremost my comment is, let's everybody recognize this is a first increment. It is a first increment and there needs to be a second, third and fourth increment to get all of that water that's now moving east and west to go south to the	inclusion of operational and structural modifications to existing infrastructure and/or construction of new features in Holeyland WMA was considered during initial plan formulation efforts for the CEPP. These proposals within the WMA were not further pursued given water quality concerns.
		Everglades. Second, I'm really disappointed the A-1 reservoir footprint has been and the lands that we're only	The quantity/quality management measures south of Lake Okeechobee are recommended to be located on and maximize the usage of the A-2 Compartment of the EAA land south of Lake

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		using for this, for this process is the lands we already own. We're not buying any more land, understand that. But the lands we already own, such as the A-I footprint and A-2, it's disappointing that we're not usine all of that.	Okeechobee that is owned by the State of Florida. The identified project lands are located between and adjacent to the North New River and Miami Canals, which reduces the need to construct any additional conveyance features to move water from Lake Okeechobee to the project features and the WCAs. The robust budrallist
		Maybe there are other reasons. And the other thing is the Holey Land has been excluded from screening and I really think that the Holey Land Project, which is south of the A-2, ought to be reconsidered to be put back into this planning process, because you got availability of that flow to go south.	water levels and improves the timing of water deliveries to the WCAs. The project lands are also adjacent to existing water quality components that are currently being used for environmental purposes, creating a unique ability to optimize C&SF operations. Existing infrastructure, including roads, pump stations, etc., are also adjacent on any upgrade. Publicity owned lands in the southern or any upgrade.
		If there are other objections, that land is being used for other purposes, for hunting or something, let's find another area for that to occur. But you got this position of flow way between Miami and North New River Canal and you got to establish that kind of thing.	portion of EAA demonstrated better cost effectiveness on a cost per acre foot of storage and treatment when compared to other locations. The lands identified for the project have already been purchased and are owned by the State of Florida which reduces the risk and uncertainty associated with real estate costs and acquisitions.
Mark Perry, Oceanographi c	12/13/12	We just, we can't really look at another increment or some other increment down the road without considering eventually between Miami and North New River Canal, you have to establish that missing link, that connection between Lake Okeechobee and the Everglades. Without that, we're still going to be dumping into the estuaries over and over and over again. I just can't really emphasize more that we just got to do something. We're killing the system. Just August through, August through November, the beginning of November, that 65 days, we had all this water dumping out and there is nowhere else to put it and we were dumping it out into the 5t. Lucie Estuary. We got 40 percent, over 40 percent of the oysters -	Thank you for your comment. All of these alternatives involve diverting approximately 200,000 acre feet of water that would be normally discharged to the estuaries south into the flow equalization basin and subsequently into the Everglades. So that's 200,000 acre feet. Now that is not a huge fraction, a very large fraction of the water that's presently discharged to the estuaries. We recognize that. This project is really just an increment of a much larger restoration program. So what we're trying to do is come up with a plan which gives us the next increment of restoration in the Central Everglades. We recognize there are unmet needs in the estuaries with this plan.

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		the Indian River Lagoon area and the St. Lucle, the Willoughby Creek, that station that the district monitored went from 95 percent and that's long the state of Johnson sea grass down to 2 percent and that's a threatened species and that's just one out of 33 threatened endangered species that we have in this area that constantly get killed and bombarded by those discharges from the St. Lucie. Yes, we've got our own water shed to deal with and these, it's common and we need to restore the IRL South and it will help us in our watershed, the 400,000 acres so the St. Lucie and Indian River, there will be even more shed. But still, the discharges from the lake need to go south and all of it needs to go south. Not just 200,000 acres. So just do what we can as fast as we can.	
Jason Totoiu, Everglades Law Center	12/13/12	I would just like to say a few words about the specific alternatives that were presented. Restoring flow into Water Conservation Area 38 is a restoration priority, and a tentatively selected plan must advance that objective. And specifically, it needs to reduce soil oxidation loss, restore it to graded ridge and slough habitat, as well as restore wading bird nesting. That's been, not there for quite some time. Removal of L-29 along the bottom of 38 I think represents a clear step forward as it removes a barrier to flow and would improve fisheries. Of these four alternatives, Alternative 4 is the best alternative for the environment and we don't believe it really presents any human health and safety issues. The flow way that is contemplated will increase biological connectivity and I guess in the context of climate change projections between	Thank you for your comment. Alternative 5 was screened out because this configuration would likely cause undesirable conditions in WCA-38 during high water conductions by routing large portions of WCA-38 flows through WCA-3B. During drought events there is concern that there is not enough storage in the A-2 FEB to prevent increased probability of damaging peat fires in WCA-3B. Further loss of soils through fire or soil oxidation/subsidence would only compound our difficulties in moving flows out of WCA-3B south across Tamiami Trail.

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		four, it's probably the best as well as it will maximum a seasonal concentration of food and provides more corridors for movement.	
		Sheet flow, like I mentioned earlier, sheet flow and ridge and slough topography are probably some of	
		the most defining characteristics of the Everglades, of a restoration and re-establishing them should be	
		top priority. Again, Alternative 4 is a real step forward towards a de-compartmentalization of the	
		system. Whereas we believe that one and three do little, if any to re-establish historic flow.	
		I guess in closing, I'm a little dismayed that 5, it	
		appears to be screened out. Well, at least not	
		screened out. There are important components in	
		Alternative 5 that would be helpful to model, to get	
		you to really the best outcome for restoring 3B. As	
		it stands now, four is probably the best step forward	
		and we look forward to seeing that implemented.	
Drew Martin	12/13/12	Drew Martin on here on hehalf of Sierra Club I'm	Thank you for your comment All of these alternatives involve
Sierra Club		also elected to the Palm Beach County Water	diverting approximately 200,000 acre feet of water that would be
		Conservation District.	normally discharged to the estuaries south into the flow equalization
			basin and subsequently into the Everglades. So that's 200,000 acre
		i'm going to say iirst that, you know, we do appreciate what vou're doing and the	reet. Now that is not a huge fraction, a very large fraction of the water that's presently discharged to the estuaries. We recognize that.
		al communities believes Alternative	This project is really just an increment of a much larger restoration
		your best of the four alternatives, I think you've	program. So what we're trying to do is come up with a plan which
		done a lot of good work. I think that this could be	gives us the next increment of restoration in the Central Everglades. We recognize there are unmetheads in the actuaries with this plan.
		concerns that I have is that 200,000 acre feet is, you	אני בריכים ביותר מורים ביותר מורים ביותר ביותחורים אניו נווים לאחוי
		know, I think you kind of shot low.	
		I think what we should have done, what we'd like to	

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CORPS RESPONSE		Thank you for your comment.
AGENCY/PUBLIC COMMENT	have seen is more than 200,000 acre feet. And I know there's some constraints. And one of the things, the big constraint has been that, you don't want to have anybody else suffer but the problem is that the estuaries are really suffering and you're not sharing the suffering evenly with some of the other communities.	I think that's been one of the problems. We need to get more of a sheet flow, which Mark Perry talked about. Now this does have some sheet flow characteristics and I've attended a lot of science presentations, and one thing you really want to do is you want to get the ridge and slough back. In order to get the ridge and slough back, we need to have a fair amount of water flowing through the system, probably more than is flowing through there in this plan. Now one of the big problems right now is there is some ponding and ponding is a result of the fact that you have dehydrated a lot of these areas pretty significantly, and as a result, there's been significantly, and as a result, there's been subsidicence. And so when the water flows through these areas, it doesn't flow out of them. You get a lot of ponding and none of the recreational people are very concerned about that. But we go back historically and look historically, this was really a lot wetter system than a lot of people realized. One of the problems is that people have gotten used to this being pretty dry and we need to go back and we need to look at how we can make it, return it to the wetter system it was. Because if it's wetter, then you can flow a lot more water and it
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		would be a lot more than 200,000 acre feet.	
Drew Martin, Sierra Club	12/13/12	And I would like to see this plan, say yeah, the first step is 200,000 acre feet. But within this plan, how can we go beyond that 200,000 acre feet to really make a difference? Because I think it's important to start moving more water and I think one of the reasons is climate change.	Thank you for your comment. The Sea Level Rise Assessment is in Annex I of the Draft PIR/EIS.
		We're going to need to get more fresh water flowing south because that's what's going to push salt water intrusion out. That's -it's going to be protecting these areas. Right now, you know, we're very concerned about flooding from the interior. But the reality is that it's not going to be a problem. We're going to be worried about flooding from the coast line, not the interior. We actually might prefer to have some interior head of fresh water to push that water back out.	
		So I think that we're kind of caught up because we're looking backwards instead of looking forward. We're looking backwards of all the things we've had in past. In the future, we're going to have to look in a more forward way. And one of the ways to protect South Florida is to have a lot more water and it's going to have to be a lot more than 200,000 acre feet.	
Drew Martin, Sierra Club	12/13/12	The other issue, which hasn't come up tonight is the water quality. And the reason, one of the reasons you are limited in a 200,000 acre feet, is you can only clean 200,000 acre feet and tharts something that we understand because there's a certain number of court cases that are going to limit you to water that has to be ten parts per billion or	Thank you for your comment. The USACE and NFS with the consent of the FDEP intend to construct and operate the CEPP project in a manner that is consistent and in compliance with the Clean Water Act and other State water quality criteria as they exist today and as they may be amended at the time of feature construction.
		somewhere in that range in order to send it south.	

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		That means, I think we need to look at expanding some of this area above the red line to get some additional water improvement. Because water improvement is going to be really crucial here and I think we haven't done enough to improve that water quality. And when Governor Crist looked at this purchase in doing a deal, you know some people called it a plan six or whatever, but to do a real flow way, then we kind of pushed that back. We said well, we're going to only clean water through STAs. We are only putting water through these managed systems and we ignore the fact that if we have a little bit more flow, we could get maybe some additional clean water. The FEB is the first good step.	
Drew Martin, Sierra Club	12/13/12	The other thing is, you've got to learn more and more at how we can add water and we're doing this above the lake, we can be considering river bank, Mark Perry talked about that. How can we store more water on people's land so that we are holding more water, so for dry periods, we have this water in storage. Of course once we send that water out to the estuaries, we don't have that water when it becomes dry. So I think, you know, we're moving in the right direction. There's certainly a lot of benefits to it. We're starting to see real sheet flow in some of these projects. We're seeing improved water quality. But hope that we look at something a little more aggressive so we can say we are going to start with 200,000 arcrefet but we're not going to wait and success. This society it's ening to be incremental but it's	Thank you for your comment.

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Meeting	Received	AGENCT/ PUBLIC COMMENT	CONFO RESPONDE
		going to be in a lot faster increments than we're talking about today.	
Charles	12/13/12	I think the quality of the comments that you've got	Thank you for your comment. Alternative 5 was screened out be-
Grande, St.		tonight are incredible. I have only one suggestion	cause this configuration would likely cause undesirable conditions in
Lucie County		that, and is everybody's suggestions for the plans all	WCA-3B during high water conditions by routing large portions of
		seem to aim at how do we increase the quantity of	WCA-3A flows through WCA-3B. During drought events there is con-
		water that goes south? And the old plan that	cern that there is not enough storage in the A-2 FEB to prevent in-
		seemed to address that was your Plan 6.	creased probability of damaging peat fires in WCA-3B. Further loss of
			soils through fire or soil oxidation/subsidence would only compound
		I think what we would like to see, within the next	our difficulties in moving flows out of WCA-3B south across Tamíami
		several months, would be a real high level, if you	Trail.
		will, cost benefit analysis comparing, and I'm going	
		to assume that Plan 4, Option 4 would be selected	
		by your computer models, if you took Option 4 and	
		the old Plan 6 and compared the quantities that	
		could be moved and the total cost of	
		thrust is in this area, the area east of the lake, has	
		always been you had the right answer years ago	
		with Plan 6 but we've kind of moved away from	
		that.	
		If we could go back and compare that historical plan	
		with this part of CEPP, which admittedly is the first	
		step, both on the quantity side and the cost side, I	
		think it would help us to help you in the future.	
Kevin	12/13/12	I'm struck by the last comment; you talk about	The Draft Project Operating Manual is in Annex C of the Draft PIR/EIS.
Henderson,		moving water south. Martin County was promised	
Public		that STA34, when it was built, would treat 65,000	
		lake feet a year of Lake Okeechobee water and that	
		water would go south. And STA34 might have	
		received that much water one year and then it	
		didn't and it hash't happened since 2004, So forgive me if I'm a little skentical about 200 000 acre feet of	
		Take water soing south.	

But having learned a few things over the years, I will	
say the Corps could help us and help protect its concept of moving lake water south by going into considerable detail in operational pools for those facilities in this plan made common to all four groups, that is the portions of the Water Conservation Area.	
Obviously, those parts of the plan can be used to treat drainage and will, and they could be used to treat the Lake Okeechobee water and we hope they will. But if you don't write the operational rules in such a way that connects your current Lake Okeechobee regulation schedule, and in such a way that those of the nuthir can indextand them than	
you will end up losing control of those parts of the puzzle. They will be taken by other users for pure benefit, mainly the agriculture community and the drainage quality concerns and what the public will receive will be no better than those facilities. So I encourage you, write the rules with the plan and attach them to the Lake schedule and make the	
decision pretty clear enough that all of us who are looking at this can see that maybe there's a way that you will, some years succeed 200,000 are feet south. We'd like to see you do the best for us. Thank you.	
-	oconut Greek, FL Table 4-14 in the Draft PIR/EIS lists the total Project Investment for Alt
	1 as \$2,040,000,000, \$2,187,000,000 for ARZ, \$2,301,000,000 for ARS and \$2,042,000,000 for AR 4. Alternatives 1 and 4 are both cost effective and AR 4 is the best buy.
that ap ap ap ap ap ap ap ap ap ap ap ap ap	attach them to the lake schedule and make the decision pretty clear enough that all of us who are looking at this can see that maybe there's a way that you will, some years succeed 200,000 are feet south. We'd like to see you do the best for us. Thank you. Thank you. Jishank you.

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		and I just have a feeling that proposal four would be	
		a lot less expensive. I know you haven't come out	
		with the figures yet, but I wonder if you could give	
		me a range of the least amount that proposal four	
		would cost and the unbelievable most amount that	
		it might cost. Does it seem logical that proposition	
		Alternative 4 would be cheaper than 1, 2 and 3?	
		The reason I ask that or say that, it seems that	
		Alternative 4 involves removal, and I think the term	
		is deduction or something, but it indicates removal	
		of the structures, whereas the other three	
		alternatives seem to rely to quite a degree on	
		infrastructure being added and constructed. Thank	
		you for the opportunity.	
Fred Fisikelli,	12/18/12	I'm Fred Fisikelli. I'm here representing myself. One	Thank you for your comment. The gaps are shown in the figures in
Public		of the first things I'd like to comment on, and I did it	the Draft PIR/EIS.
		at the WRAC meeting last night, is you're showing	
		on all four of your alternatives, Kim, where you're	
		backfilling that canal completely, and we know	
		that's not true. I think it would be better for the	
		whole thing if it was shown the way it's going to be	
		when you finish. It's going to be a gap canal every so	
		often, but it's misleading to people the way you	
		show it up there as a solid straight line.	
		THE SECOND CHING I WOULD THE TO SHOW THE LIFE FEORUS	
		is, you know, this year is a good example, the	
		conservation areas are way over-staged, and yet we	
		kept pumping water into the north end of 3A. I see	
		you have a route around that. We've used it before.	
		You can come through the 37, the 31 and the 33	
		and bring it all the way down to where you want it	
		right down there in the corner of the Tamiami Trail,	
		which is where you want the water coming out,	
		where it comes out to 3B, I would like that written	
		into the plan that, during those times that we have	

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		that exceptional amount of water and we have to	
		get rid of it, instead of putting it into an area that's	
		already impacted, to take it around and you would	
		get it to the park who really needs it. So I'd like that	
		comment part of the record.	
		As far as the rest of this, we really can't comment on	
		your water tables because, until you can tell us how	
		much water you're going to put in there and what	
		depth you're going to put in there and what length	
		of time you will put on there, we can't really tell	
		because it's been recommended by the game	
		commission and all their information, and I gave	
		Kim a complete thing on that as part of the record,	
		that we've proven the game commission has	
		proven that over 18-inches of water is detrimental	
		to the conservation areas, and at the present time	
		you all were doing that, you were overstaging when	
		you were doing that. But we won't accept anything	
		above 18 inches, and it's got to be a short amount	
		of time. And, until you can give us some information	
		showing that, we really can't comment on that part	
		of it, but as far as that, personally, I'm	
		recommending Alternative 1. Thank you.	
John Rosier,	12/18/12	Just a couple things. We talked about them at the	The recreational features of the TSP are described in Section 5 and
Fulltrack		WRAC meeting last night. We would like to see	Appendix F of the Draft PIR/EIS.
Conservation		access on the L-5 and when we're doing	
Club of Dade		construction, that remain open because a lot of	
County		times, when they start working on the levees, they	
		shut them down. So that's an access to the area,	
		and it's very important to the users up there that	
		the access along the L-5 stays open, you know,	
		within constraints. We know that, if you're working	
		down near the S-8 pump or something, you might	
		have to shut that area off, but let's not shut the	
		whole entire levee off because that is access to the	

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0		area for us.	
John Kosier, Fulltrack Conservation Club of Dade County	17/18/17	And then the orner thing — its anazung, going to all these meetings and stuff, what I start remembering, but what constraints will the park service have on the amount of water, if whatever option is picked and we go through it and we do all this, what constraints will the park service have on water going into the area that we're trying to get water? And I	Ine Draft Project Operating Manual is in Annex C of the Uraft PhyEb. The Biological Opinion will be in Annex A in the Final PIR/EIS that will outline the conditions for the Cape Sable seaside sparrow.
		reference that to the Seaside Sparrow or the Cape Sable Sparrow that's out there because we know that every year, November 1st, they shut the 5-333 down because they don't want to put the water there because it's their nesting season. So has that been takked about with the park service, that some type of adaptive management program go ahead because it's great that we do this and we stant	
		getting sheet flow, but again, if we get a movement of a nesting area or something, they're going to say we can't put water there. So it's kind of for naught that we do this, that we still have another agency telling us, no, we don't want the water. It's going to have to stay up, you know, north of the trail, and basically we're doing this big giant project that's not doing what it's supposed to do. So i just wanted to bring that up.	
Matthew Schwartz, South Florida	12/18/12	I'm here representing South Florida Wildlife Association, and I have some various comments to make on the proposals. I guess to begin with, im a make on the proposals.	Inclusion of operational and structural modifications to existing infrastructure and/or construction of new features in Holeyland WMA was considered during initial plan formulation efforts for the CEPP.
Wildlife Association		intte disappointed in the proposals and the alternatives that have been put forward because, as was said, scoping comments were taken in November, December of last year, and there were quite a few people who requested an alternative that didn't show up in this range of alternatives, and that was the flowway from Lake Okeechobee down to the Conservation Areas STA 3-4, the Holey Land	Inese proposals within the Winda Were not further pursued given water quality concerns. The quantity/quality management measures south of Lake Okeechobee are recommended to be located on and maximize the usage of the A-2 Compartment of the EAA land south of Lake Okeechobee that is owned by the State of Florida. The identified project lands are located between and adjacent to the North New

	Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		and the Rotenberger, which would have created the beginning of a naturally-restored Everglades. Nobody's talking about the triple land option that we have. We have the option right now to buy a massive piece of that flowway, and we're talking about a piece of land between the Miami Canal and the New River Canal that the Water Management District does have an option to purchase. It was part of that original sugar deal that worked out. The amount of land south of that purchase option is not that much, and, if we get that land, whether by a willing seller from the Fanjuls or by eminent domain which the state does have the power to exercise and you can acquire that flowway, it provides quite a few benefits.	River and Miami Canals, which reduces the need to construct any additional conveyance features to move water from Lake Okeechobee to the the project features and the WCAs. The robust hydraulic connection to Lake Okeechobee creates flexibility in managing high water levels and improves the timing of water deliveries to the WCAs. The project lands are also adjacent to existing water quality components that are currently being used for environmental purposes, creating a unique ability to optimize C&SF operations. Existing infrastructure, including roads, pump stations, etc., are already in existence and would not require substantial efforts for utilization or any upgrade. Publicly owned lands in the southern portion of EAA demonstrated better cost effectiveness on a cost per acre foot of storage and treatment when compared to other locations. The lands identified for the project have already been purchased and are owned by the State of Florida which reduces the risk and uncertainty associated with real estate costs and acquisitions.
Matthew Schwartz, South Florida Wildlife Association	12/18/12	Of the alternatives you've presented, I would say we support Alternative 4, so we do support a lot of the suff you're doing in the lower part of that CEPP project, especially the degrading of the levee north of the Tamiami Trail to allow that water to flow into the park. The park is badly in need of that water, but that water will be much cleaner if it does not pass through thousands and thousands of acres of sugar land north of there. There's no reason for that sugar land to be there given that we have the option to buy about half of it through the U.S. Sugar purchase and we could acquire the rest. At that point – because right now, the way you have the system set up, one of the major problems with the Everglades is not just what's happening in the Everglades, but it's the discharges to the esturies to the east and the west.	All of these alternatives involve diverting approximately 200,000 acrefect of water that would be normally discharged to the estuaries south into the flow equalization basin and subsequently into the Everglades. So that's 200,000 acre feet. Now that is not a huge fraction, a very large fraction of the water that's presently discharged to the estuaries. We recognize that. This project is really just an increment of a much larger restoration program. So what we're trying to do is come up with a plan which gives us the next increment of restoration in the Central Everglades. We recognize there are unmet needs in the estuaries with this plan.

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CEPP Final PIR and EIS

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Public Meeting	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		Site one impoundment is in construction. Two new impoundments for Broward County, C-9 and C-11, were just approved in October. So we're spending hundreds of millions, probably billions or dollars ultimately in these impoundments, money that we could easily use to acquire the sugar land, which is the main source of the problem in the Everglades system. Let's build a flowway. Let's really restore the land. Let's build a flowway. Let's really restore the Everglades. Thanks	
Al Ovies, South Florida Anders for Everglades Restoration	12/18/12	Who would have thunk that we would be witnessing the transformation from the tortoise to the hare in this process that we've been participating in for over ten years now. Ten years ago, when we looked at this map, we probably would have seen that every canal that we fished and have been fishing for decades would be one of those big heavy black lines that signifies backfilling and degrading and would have signified the end of our sport. Right now we're looking at a small segment of the northern half of the Miami Canal that's going to be backfilled. So I think, from the safest point of view, this is a really optimistic eventuality here. Of course, you guys are the Corps, and eternal vigilance is the key here. I understand there's going to be other parts of the PIR that could, you know, head back into the backfill area, but for now I think what I'm looking at is pretty interesting. We are probably discuss this a little bif further.	Than k yo for your comment.
Al Ovies, South Florida Anglers for Everglades Restoration	12/18/12	For those of you who aren't familiar with our organization, our main goal has been to prevent the backfilling of the L-67A and C canals as well as the Miami Canal, and with this project, it gives us a chance to kind of move into the direction of a	Thank you for your comment. The recreational features of the TSP are described in Section 5 and Appendix F of the Draft PIR/EIS.

CORPS RESPONSE		Thank you for your comment.			
AGENCY/PUBLIC COMMENT	couple of our other goals of our mission statement, which is to enhance the current fishing opportunities. And looking at Alternative 4, we see a little bit of potential for accomplishing both of these goals. The things that would concern us if we were to back Alternative 4 would be the fact that that temporary levee cuts across the L-67C canal and would effectively block off 15 to 20 miles of prime fishing waters. So we would like to see something, some kind of discussion, some kind of alternatives as to how the northern half of the L-67C canal would be made available to boating access. The other thing would be that for the longest time we have looked at the L-29 as a possible fishery. Due to the fact that there's no water movement in or out of that canal, it's kind of been stagnant over the decades, and it's become infested with gar and mud fish and other kinds of fish that aren't exactly the trophy fish that we're looking for, and we would like to see plans that would include some kind of connectivity between WC 3B and the L-29 canal it's the connectivity between WC 3B and the L-29 canal it's the made with reference to the L-29 canal which would like to see if some kind of treatment couldn't be made with reference to the L-29 canal which would kind of help to replicate the conditions on the 67A canal. Thank you.	time. I think	points have really been said. NPCA is very supportive of Alternative 4 for some of the reasons	that I think you heard people say tonight.	
Date Received		12/18/12			
Public Meeting			Sherriffs, the National	Parks	Conservation

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Public	Date	AGENCY/BIBILC COMMENT	CORPS RESPONSE
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Association		By removing part of L-29, you're actually taking a	
		major step towards decompartmentalizing the	
		Everglades system, which is really the goal of	
		Everglades restoration, and you get gravity-driven	
		sheet flow gets restored, ridge and slough habitat's	
		restored. You get increased fishery opportunities.	
		We really see that this is a meaningful step towards	
		Everglades restoration. You've got to start removing	
		some of the infrastructure that got us to where we	
		are today	
		We're extremely grateful for everyone in the room's	
		thought I think it's book a good discussion	
		CHOUGHES. I CHILIR ICS DEETL & VELY BOOK MISCUSSION	
		tonight amongst stakeholders, as well as the Corps.	
		So I congratulate you, and keeping marching	
		forward towards getting a TSP.	
Megan	12/18/12	I'll try not to be too repetitive, but I wrote this out.	Thank you for your comment.
Tinsley,		And first I would just like to compliment you on this	
Audubon		expedited process. Planning projects that are	
Florida		actually related to each other together is really a	
		great stan forward in reducing the ecological decline	
		great step forward in Feducing the ecological decime	
		we see in the Evergiades, and that's wify we re fiele,	
		the decline, per the National Academy, to say that	
		the Everglades are approaching, at least part of	
		them, irreversible harm. So the process that we've	
		all kind of been a part of, and the Corps and Water	
		Management District especially has kind of	
		answered the question that I think to the surprise of	
		many of us in the room that we've actually planned	
		this project on a time scale we maybe didn't think	
		was possible.	
		But to get at the ecological decline, we're at a point	
		where we need to really select the plan that takes a	
		bold step forward to restoring more natural water	
		flow through the conservation areas to Everglades	

Public	Date		
Meeting	Received	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
		National Park and Florida Bay. So as I was mentioning, Alternative 4 at least provides for a small degradation of L-29 and that gets us towards a more decompartmentalized system, and I just wanted to say that Conservation Area 3B is an important component of the Everglades. It's been denrived of water for so long and an ultimate vision	
		of Central Everglades will get us toward reducing the compartmentalization that has deprived that area of water. And because we know that CEPP is an increment	
		and there will be more and we need more restoration, we think it's particularly important that this first phase really show ecological benefits because through those benefits will it be able to go	
		back and show that it worked, that we did something and look at what we could do if we are able to keep going.	
		So, again, we really, really thank everyone that's been involved in getting us to this point and support moving forward for the Tentatively Selected Plan. Thanks	
George Jones 12/18/12 with Everglades,	12/18/12	I just encourage in the process, as we're moving Th forward, that you continue to mention what you mentioned earlier today, Kim, and that's the first live heard mention of the C-11 The truth is usually	The TSP does not include backfiling of the C-11.
Broward County		less painful than rumons, and there's rumors about backfill and all those things flying around and the gapping of that. I'd just like to see that information presented every time we discuss the alternatives.	
		First, I don't know, is that in every alternative? But it still needs to be part of the discussion at meetings so that it's out there in the public domain	
CEPP Final PIR and EIS	and ElS	0,600	April 2014

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Public Meeting	Date	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
		and that the benefits as well as any other issues that come up with that get a chance for good, full discussion. That's my only comment. And I appreciate the process. I've been involved in it for a while, and you guys are doing a great job of moving forward.	
Cara Gapp, Clean Water Action	12/18/12	I'm here for Clean Water Action, and I'm here also to lend our support to Alternative Number 4 for many of the reasons that my colleague just mentioned. We're really interested in seeing ecological, not just hydrological connectivity. We're concerned that some of the other options are very managed and don't facilitate our vision for a restored, naturally-flowing Everglades. We definitely see that Alternative 4 will go the furthest to removing some major barriers that currently exist to restore that more natural connectivity. We of course want to give our appreciation to this open public process as well. Somebody said before it's amazing how much I've learned coming to these meetings, and I think that the pace and the continued meetings have really served to help people understand, to talk about it frequently, to be pat of it, and I thank you for that process. We're definitely hopeful and looking forward to CEPP phase 2. It may be farther in the future, but we know every alternative here presented, we're dealing with 200,000 acre feet of water, which is a great start, but it's not enough.	Thank you for your comment. Alternative 5 was screened out because this configuration would likely cause undesirable conditions in WCA-3B during high water conditions by routing large portions of WCA-3B dows through WCA-3B. During drought events there is concern that there is not enough storage in the A-2 FEB to prevent increased probability of damaging peat fires in WCA-3B. Further loss of soils through fire or soil oxidation/subsidence would only compound our difficulties in moving flows out of WCA-3B south across Tamiami Trail.
		we are increased that the continue to move forward, get	

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Appendix	-	

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Public Meeting	Date Received	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		even more done, keep the momentum up, and we	
		believe that Alternative 4 is the best to set us up for	
		future restoration, whether that is CEPP Phase 2,	
		other CERP projects or restoration in any other	
		capacity. So again I just appreciate being out here	
		tonight and definitely supporting Alternative 4.	
		Thank you so much.	

CEPP Final PIR and EIS
C.3-312

C.3.2.3 Agency and Public Letters

Audubon Florida * Everglades Foundation * Everglades Law Center Clean Water Action * Florida Wildlife Federation National Parks Conservation Association * Natural Resources Defense Council

November 13 2012

Attn: Gina Paduano Ralph, Ph.D Department of the Army Planning and Policy Division Jacksonville District Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Dr. Ralph;

On behalf of the undersigned organizations, we appreciate the opportunity to comment on Central Everglades Planning Project (CEPP) scoping. As you know, we strongly support the Army Corps of Engineers' efforts to deliver a CEPP project implementation report by May 2013. Over the last 12 months, the Jacksonville team has accomplished an astonishing amount of progress in formulating alternatives that can address the urgent need for delivering increased water flows into the central Everglades and Everglades National Park (ENP). Given that the final array of alternatives will be presented and a Tentatively Selected Plan will soon be chosen, we wanted to take the opportunity to provide feedback in advance of the next Project Delivery Team (PDT) meeting and public workshop.

CEPP must take a clear step toward restoration.

We are heartened to see that the CEPP PDT team has identified an estimated 200,000 acre-feet of new water that can be delivered to the central Everglades. However, for CEPP to meaningfully advance restoration and achieve ecological benefits, the plan must increase ecological connectivity and water conveyance between ENP and Water Conservation Areas (WCAs) 3A and 3B. Partial removal of the L-29 levee represents the clear step forward needed to show progress.

Full restoration of sheetflow from WCA 3A through 3B and into ENP is the ultimate goal, but it is understood that seepage issues constrain our ability to implement such restoration in one complete iteration. Given these concerns, it is vital that the CEPP include phased and/or locally preferred alternatives that will provide interim benefits while additional restoration components, including the authorized elevation and bridging of Tamiami Trail and other projects, come online.

CEPP must remain focused on ecological benefits.

The CEPP process and robust stakeholder participation workshops have allowed for unprecedented dialogue and feedback. We acknowledge the effort required to be inclusive and applaud the PDT's engagement efforts, but want to emphasize that it is not possible for CEPP, nor any other single project in the full Comprehensive Everglades Restoration Plan (CERP), to achieve each individual goal outlined in CERP. It is absolutely essential that CEPP achieve key restoration benchmarks of rerouting flow into Northeast Shark River Slough. To do this, the Tentatively Selected Plan must be selected based on its ability to achieve the following CEPP goals outlined in the December 2011 scoping:

Audubon Florida * Everglades Foundation * Everglades Law Center Clean Water Action * Florida Wildlife Federation National Parks Conservation Association * Natural Resources Defense Council

- Restore habitat in the central Everglades, focusing on the "River of Grass";
- Deliver "new" sources of clean water to the central Everglades and ENP; and
- Reduce damaging discharges to east and west coast estuaries.

Compatibility with CERP

We understand that the features of CEPP's first increment are constrained by federal and state appropriations, and appreciate the tremendous effort by the PDT to move this planning effort forward expediently. Given these limitations, it becomes even more critical to ensure that CEPP alternatives create opportunities for sheetflow that can be expanded in future CERP efforts rather than creating an even more managed Everglades ecosystem by installing more pumps and other infrastructure.

Environmental groups have a common vision for the first iteration of central Everglades restoration, supported by numerous recreational stakeholders. This vision includes bridging Tamiami Trail, decompartmentalizing WCA-3A, WCA-3B, and Northeast Shark River Slough in ENP, and completely degrading the L-29 along the bottom of WCA-3B. Implementation of this vision includes a *temporary* berm along the existing "Blue Shanty" canal alignment as a construction phase which would be removed following the completion of the Tamiami Trail improvements and other projects.

We believe that a temporary Blue Shanty berm is a cost effective way to utilize existing canal and berm features in southwest WCA-3B and ENP to achieve near-term benefits and "train" the River of Grass through two gated structures to be installed along lower L-67A during an initial CEPP phase. This feature is intended to allow for restoration of sheetflow, the creation of ridge-and-slough habitat, and fishery improvement through marsh connectivity and should not be interpreted or designed as a flood control structure.

We remain committed to assisting in this process and to helping ensure increased water flows to the central Everglades, relief to the northern estuaries, and ecological benefits for America's Everglades. We look forward to working with you in this ambitious endeavor and invite any questions or comments you may have.

Sincerely.

/Signatures waived to expedite delivery/

Megan Tinsley, Everglades Policy Associate Audubon Florida

Kathleen Atemo, Florida Director Clean Water Action

Eric Eikenberg, Chief Executive Officer Everglades Foundation

Lisa Interlandi, Executive Director Everglades Law Center Manley Fuller, President Florida Wildlife Federation

Dawn Shirreffs, Everglades Restoration Program Manager National Parks Conservation Association

Bradford Sewell, Senior Attorney Natural Resources Defense Council



Everglades Coalition

1000 FRIENDS OF FLORIDA ARTHUR R. MARSHALL FOUNDATION AUDUBON OF FLORIDA AUDUBON SOCIETY OF THE

EVERGLADES
AUDUBON OF SOUTHWEST FLORIDA
CALOOSAHATCHEE RIVER CITIZENS
ASSOCIATION/ RIVERWATCH

CLEAN WATER ACTION
CLEAN WATER NETWORK
COLLIER COUNTY AUDUBON SOCIETY
CONSERVANCY OF SOUTHWEST

FLORIDA
DEFENDERS OF WILDLIFE
DING DARLING WILDLIFE SOCIETY
EARTHJUSTICE

ENVIRONMENT FLORIDA
THE ENVIRONMENTAL COALITION
EVERGLADES COORDINATING COUNCIL
EVERGLADES FOUNDATION
EVERGLADES LAW CENTER
FLORIDA CONSERVATION ALLIANCE
FLORIDA DEFENDERS OF THE
ENVIRONMENT

FLORIDA KEYS ENVIRONMENTAL FUND FLORIDA NATIVE PLANT SOCIETY FLORIDA OCEANOGRAPHIC SOCIETY FLORIDA WILDLIFE FEDERATION

FRIENDS OF THE ARTHUR R. MARSHALL
LOXAHATCHEE WILDLIFE REFUGE
FRIENDS OF THE EVERSLADES
HENDRY GLADES AUDUBON SOCIETY
IZAAK WALTON LEAGUE FLORIDA
DIVISION

IZAAK WALTON LEAGUE FLORIDA KEYS CHAPTER

IZAAK WALTON LEAGUE MANGROVE CHAPTER

IZAAK WALTON LEAGUE OF AMERICA LAST STAND LEAGUE OF WOMEN VOTERS OF

FLORIDA
LOXAHATCHEE RIVER COALITION
MARTIN COUNTY CONSERVATION

ALLIANCE
NATIONAL AUDUBON SOCIETY
NATIONAL PARKS CONSERVATION

ASSOCIATION
NATIONAL WILDLIFE FEDERATION
NATIONAL WILDLIFE REFUGE

ASSOCIATION
NATURAL RESOURCES DEFENSE
COUNCIL

THE OCEAN CONSERVANCY
THE PEGASUS FOUNDATION

REEF RELIEF
SANIBEL-CAPTIVA CONSERVATION

FOUNDATION
SAVE IT NOW, GLADES!

SIERRA CLUB SIERRA CLUB BROWARD GROUP SIERRA CLUB CALUSA GROUP SIERRA CLUB CENTRAL FLORIDA GROUP

SIERRA CLUB FLORIDA CHAPTER SIERRA CLUB LOXAHATCHEE GROUP SIERRA CLUB MIAMI GROUP THE SNOOK AND GAMEFISH

FOUNDATION
SOUTH FLORIDA AUDUBON SOCIETY
TROPICAL AUDUBON SOCIETY
THE URBAN ENVIRONMENT LEAGUE
WORLD WILDLIFE FUND

RESOLUTION SUPPORTING ALTERNATIVE 4 FOR CENTRAL EVERGLADES PLANNING PROJECT

WHEREAS, the Everglades Coalition is committed to the restoration of America's Everglades, and protecting lands critical to the future of Florida's environment, drinking water, economy, recreation and quality of life; and

WHEREAS, the Everglades Coalition has previously supported Central Everglades Planning Project (CEPP) goals to: 1) restore habitat in the central Everglades, focusing on the "River of Grass"; 2) deliver "new" sources of clean water to the central Everglades and Everglades National Park (ENP); and 3) reduce damaging discharges to the east and west coast estuaries.

WHEREAS, removal of the L-29 along the bottom of WCA-3B is consistent with long term restoration goals and represents a clear step forward in Everglades restoration as it removes a barrier to sheet flow and will improve fishery conditions;

WHEREAS, Alternative 4 is the only alternative in CEPP which will begin more natural flow into Water Conservation Area (WCA) 3B and ENP, re-establish ridge and slough topography, and improve ecological connectivity, all of which are priority tenets of Everglades restoration;

WHEREAS, restoration of the Everglades should not significantly increase the footprint of levees in sensitive wetlands;

WHEREAS, restoring the natural flow path of the Everglades, as proposed in Alternative 4, will reduce soil oxidation and loss in WCA 3B, increase biological connectivity, improve the mosaic of landscapes essential to the food chain, and provide more corridors and habitat for fish and wildlife.

THEREFORE BE IT RESOLVED that the Everglades Coalition supports CEPP Alternative 4, with the WCA 3B river training structure implemented with a minimal footprint, as the best alternative for the environment. The Coalition requests that it be designated the Tentatively Selected Plan in the Project Implementation Report because it most comprehensively and meaningfully advances restoration goals, achieves ecosystem benefits, and increases ecological connectivity and water conveyance between ENP and Water Conservation Areas 3A and 3B.

Approved December 27, 2012

Daw Shings

Dawn Shirreffs, National Co-Chair 954-961-1280 x 205

dshirreffs@npca.org

Jennifer Hecker, State Co-Chair 239-262-0304 x 250 jenniferh@conservancy.org

Genniper Hicker



June 15, 2012

Ingrid Sotelo, Chief Miami Regulatory Division U.S. Army Corps of Engineers 9900 S.W. 107th Avenue, Suite #203 Miami, FL 33176

Dear Ingrid Sotelo:

At the City of Coral Gables City Commission meeting held on May 8, 2012, legislation (Resolution No. 2012-91) pertaining to supporting the Central Everglades Planning Project for the restoration of the Central Everglades was adopted.

This resolution is being forwarded to you for your information and files.

Sincerely

Walter J. Foeman

City Clerk

WJF/yd

Encl: Resolution No. 2012-91

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MAM RESIDENTERY OFFICE

JAN DESTRICT, USAGE

CITY OF CORAL GABLES, FLORIDA

RESOLUTION NO. 2012-91

RESOLUTION OF THE CITY COMMISSION OF CORAL GABLES SUPPORTING THE CENTRAL EVERGLADES PLANNING PROJECT FOR THE RESTORATION OF THE CENTRAL EVERGLADES; AND FURTHER DIRECTING THE CITY CLERK TO TRANSMIT A COPY OF THIS RESOLUTION TO THE OFFICIALS AS STATED HEREIN.

WHEREAS, the Greater Everglades Ecosystem is a globally imperiled habitat and the primary source of drinking water for the City of Coral Gables; and

WHEREAS, Everglades National Park is critical to South Florida's tourism, with nearly a million people visiting each year; 30 percent of whom are from outside the United States; and

WHEREAS, the Everglades ecosystem has continued to decline in the face of restoration delays and an expedited solution is needed to increase the quality, quantity, timing and distribution of freshwater flows into the central Everglades, Everglades National Park and Florida and Biscayne Bay; and

WHEREAS, increased deliveries of water south of Lake Okeechobee will reduce damaging discharges to the Caloosahatchee and St. Lucie estuaries; and

WHEREAS, the goal of the Central Everglades Planning Project (CEPP) is to significantly reduce planning times and deliver a finalized plan, for a suite of restoration projects in the central Everglades within 18 months; and

WHEREAS, full support and funding by the State of Florida and the U.S. Congress is needed to implement this project, protect regional water supply, create much needed jobs and strengthen the local economy;

NOW, THEREFORE, BE IT RESOLVED BY THE COMMISSION OF THE CITY OF CORAL GABLES:

SECTION 1. That the foregoing "WHEREAS" clauses are hereby ratified and confirmed as being true and correct and are hereby made a specific part of this Resolution upon adoption hereof.

SECTION 2. That the City of Coral Gables supports the completion of a Project Implementation Report (PIR) by the South Florida Water Management District and the U.S. Army Corps of Engineers through the CEPP by May 2013 that addresses key obstacles for restoring freshwater flows and implements meaningful ecological and economic benefits toward restoring America's Everglades.

Page 1 of 2 - Resolution No. 2012-91



SECTION 3. That the City Commission does hereby direct the City Clerk to transmit a certified copy of this resolution to the South Florida Water Management District, U. S. Army Corps of Engineers, and the Tropical Audubon Society.

SECTION 4. This resolution shall become effective upon the date of its passage and adoption herein.

PASSED AND ADOPTED THIS EIGHTH DAY OF MAY, A.D., 2012.

(Moved: Anderson/ Seconded: Quesada)

(Yeas: Anderson, Cabrera, Kerdyk, Quesada, Cason)

(Unanimous: 5-0 Vote) (Agenda Item: C-2)

ATTEST:

WALTER J. FOR

CITY CLERK

APPROVED:

(IIM) CASON

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

CRAIG E. LEEN CITY ATTORNEY

STATE OF FLORIDA . COUNTY OF MIAMI DADE

i, HEREBY CERTIFY that the foregoing (Pages 1—2———, inclusive) is a true and correct copy of the original on file in this office.

CITY OF ERM

Page 2 of 2 - Resolution No. 2012-91



Florida Crystals Corporation One North Clematis Street Suite 200 West Palm Beach, FL 33401

William F. Tarr Vice President P: 561-366-5157 F: 561-651-1280

January 4, 2013

VIA E-MAIL AND U.S. MAIL

Dr. Gina Padua Ralph U.S. Army Corps of Engineers Planning Division P.O. Box 4970 Jacksonville, Florida 32232-0019

Re: Central Everglades Planning Project

Dear Dr. Ralph:

I am writing to supplement the comments of Florida Crystals and its affiliates, including Okeelanta Corporation and New Hope Sugar Company, regarding the analysis of alternatives in the Central Everglades Planning Project (CEPP). For the last 18 months this company has been very engaged in the development of the state's Restoration Strategies Plan and we want to make sure the CEPP is fully compatible with that plan.

NEPA requires that for each alternative, the U.S. Army Corps of Engineers (Corps) must analyze the reasonably-foreseeable environmental impacts (40 CFR § 1508.8) and "any irreversible and irretrievable commitments of resources which would be involved in the proposed action should it be implemented" (42 U.S.C. § 4332(2)(C)(v)). Among those impacts are potential water quality impacts resulting from implementation of the CEPP. We ask that in the draft Project Implementation Report / Environmental Impact Statement (PIR/EIS), the Corps analyze the likely water quality effects of each alternative in the Water Conservation Areas (WCA's) and Everglades National Park.

In addition to estimating the water quality effects, the Corps also should demonstrate that the various alternatives will result in compliance with (a) the Water Quality Based Effluent Limitations contained in the NPDES permits for the Stormwater Treatment Areas

Dr. Gina Padua Ralph January 4, 2013 Page 2

(STAs), and (b) the provisions of the Consent Decree in United States v. South Florida Water Management District, Case No. 88-1886 (S.D. Fla.). Such an analysis is appropriate in light of the federal agencies' recent court submission which indicated that compliance with the NPDES permits for the STAs would not necessarily lead to compliance with the Consent Decree and that "augmented remedial measures and projects" might be required. See the United States' Opposition to State Parties' Motion for Declaratory Order, pages 9-11 (filed November 26, 2012 in Case No. 88-1886).

Thank you for considering our comments. We look forward to continuing to work with the Corps as it moves forward with development of the CEPP. With kind regards, I remain,

Yours truly

William Tarr Vice President

Florida Crystals Corporation

/jcd

Copy w/encl. (via e-mail) to:

Mr. Joe Collins, SFWMD, Chair

Mr. Kevin Powers, SFWMD, Vice Chair

Ms. Sandy Batchelor, SFWMD Board Member

Mr. Daniel DeLisi, SFWMD Board Member

Mr. James J. Moran, SFWMD Board Member

Mr. Daniel O'Keefe, SFWMD Board Member

Mr. Juan M. Portuondo, SFWMD Board Member

Mr. Timothy Sargent, SFWMD Board Member

Mr. Glenn J. Waldman, SFWMD Board Member

Ms. Melissa Meeker, SFWMD

Mr. Ernie Barnett, SFWMD

Mr. Matt Morrison, SFWMD

Mr. Tom Teets, SFWMD

Ms. Kimberly Taplin, USACE

Mr. Steven Kopecky, USACE

Mr. Dennis Duke, Interior

Mr. Neal McAliley



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William F. Tarr Vice President P: 561-366-5157 F: 561-651-1280

March 30, 2012

VIA E-MAIL AND U.S. MAIL

Dr. Gina Padua Ralph U.S. Army Corps of Engineers Planning Division P.O. Box 4970 Jacksonville, Florida 32232-0019

Re: Central Everglades Planning Project

Dear Dr. Ralph:

I am writing to provide additional comments of Florida Crystals and its affiliates, including Okeelanta Corporation and New Hope Sugar Company, on the Central Everglades Planning Project (CEPP). We appreciate the U.S. Army Corps of Engineers' (Corps) consideration of our initial comments on the scope of the CEPP. Based upon our review of the Corps' response to those comments issued March 1, 2012 (Scoping Response), we want to reiterate and expand upon several important points.

Florida Crystals continues to support the goal of the CEPP, which as we understand it, is to bring important restoration projects on-line sooner, consistent with the approved 1999 Comprehensive Everglades Restoration Plan. The 1999 Approved Plan calls for restoring the Everglades while providing for other water-related needs of South Florida. For purposes of the CEPP, this means (among other things) addressing the water supply needs of existing uses that rely on Lake Okeechobee, and designing a project that uses lands purchased in the Everglades Agricultural Area (EAA) and elsewhere to implement the 1999 Approved Plan. We believe that the Corps can develop a plan for the CEPP which meets those criteria and remains true to the stakeholder consensus that led to

Congressional authorization of the 1999 Approved Plan. Our comments today focus on the integration of the CEPP with other ongoing activities, and the Corps' commitment to provide pre-CERP levels of service to agricultural and urban water uses in the CEPP development process.

Misidentification of Stakeholder Comments. As an initial matter, the Corps misidentified comments from agricultural stakeholders in its Scoping Response. Florida Crystals' comments were identified as the comments of the Sugar Cane Growers Cooperative of Florida (and labeled as "Sugar") comments, while the Cooperative's comments were identified as the comments of Florida Crystals (and labeled as "Crystals"). The Corps should correct this error.

<u>Projects Included within the CEPP.</u> We previously identified nine components of the 1999 Approved Plan which fit the general description of the CEPP. The Scoping Response confirms that five of those components are included, included a sixth component ("Bird Drive Recharge Area (U)") which we did not identify, and was silent regarding the remaining four projects on our list. Scoping Response, at 46 (response to Sugar-2).

The Corps needs to explain why it is not including in the CEPP all of the relevant components of the 1999 Approved Plan. The Corps' Federal Register notice indicated that the CEPP is the "heart of CERP" and is the Corps' effort to address water levels in Lake Okeechobee, water deliveries to the Water Conservation Areas, and sheetflow in the Everglades. 76 Fed. Reg. 75539 (Dec. 2, 2011). The project components left off the Corps' list all address those issues. Moreover, the Corps appears to be considering proposals in the CEPP that are addressed by those missing components, e.g., consideration of seepage management measures along the WCA 3A and 3B levee (which is missing component "Q"). We are concerned that failure to include them signals that the Corps effectively is abandoning them. Abandoning components of the 1999 Approved Plan is too significant a change to the CERP for the Corps to do it silently. If the Corps does not include them in the CEPP, then you should explain why and set forth how the Corps intends to address them in some separate process.

We have a much greater concern that the CEPP itself is not integrated with other ongoing Corps and SFWMD projects in the same locations and dealing with the same subject matter. The CERP was conceived of as the "Comprehensive Everglades Restoration Plan."

The expectation of stakeholders and Congress was that the 1999 Approved Plan would be integrated with and guide all changes to the Central and Southern Florida Project. See, e.g., WRDA 2000, \$601(b)(1)(B) (directing Corps to integrate implementation of CERP "with ongoing Federal and State projects and activities); WRDA 1996, § 528(b)(2)(B), -(3)(A), -(c)(1) (providing that ongoing Corps actions should be consistent with Governor's Commission for Sustainable South Florida conceptual plan, which is the template of the CERP). The Corps announced the CEPP as "[a]n integrated study effort" for the Central Everglades that will "set the direction for the next decade of CERP implementation." 76 Fed. Reg. 75539 (Dec. 2, 2011).

Despite that guidance the Corps is not integrating other agency activities, such as the rehabilitation of the Herbert Hoover Dike (HHD) and the Lake Okeechobee regulation schedule (e.g., making permanent the 2008 regulation schedule, which is discussed further below). The Corps also is not addressing the State's Long-Term Plan to address Everglades water quality issues approved by the Florida Legislature, § 373.4596(3), Fla. Stat. The Long-Term Plan, in particular, calls for canal conveyance improvements in the EAA and construction of a reservoir at the EAA A-1 site that would include opportunities for agricultural water storage. The Corps also is not addressing the measures under consideration related to ongoing court cases that would affect water quality and discharges from the EAA to the Water Conservation Areas. These measures are inherently interrelated with any CEPP plan designed to use the A-1 site or which involved changes in water flows in the EAA, and yet the CEPP without explanation does not include them within its scope.

The lack of integration of the CEPP with these other projects hobbles the ability of the Corps and SFWMD to address the water-related needs of the region. By keeping activities related to Lake Okeechobee separate, the Corps is taking off the table reasonable alternatives related to the lake which could address water storage. By not integrating the CEPP with consideration of new Stormwater Treatment Areas and related features in ongoing litigation, the Corps has two different projects that potentially will use the same SFWMD-owned lands in the EAA and that will compete for the same limited pool of funds at the SFWMD. The result has been confusion, because the public does not know which lands in the EAA are available for the CEPP or whether the SFWMD will be able to afford to participate in the CEPP at all. This lack of integration is inconsistent with Congress' directives to the Corps. See, e.g., WRDA 2000, § 601(b) (1) (B) ("In carrying out the Plan, the Secretary

shall integrate the [1999 Approved Plan] with ongoing Federal and State projects and activities..."); 33 U.S.C. § 2282a(f)(1)(A)(i) ("assessments for a water resources project shall include recommendations for alternatives ... that, as determined in accordance with the non-Federal interest for the project, promote integrated water resources management").

We recommend that the Corps make the CEPP a truly integrated study that will allow all relevant proposals and activities to be evaluated together. This will facilitate transparency regarding available land and funds for new projects, and allow everyone to know the trade-offs inherent in each element of these activities. It is also more likely to identify a plan with the most benefits for the least cost.

Status of 2008 Lake Okeechobee Regulation Schedule (LORS 2008). The Corps' Scoping Response heightens our concerns about Lake Okeechobee water supply issues. In particular, the Scoping Response makes it appear that the Corps is using the CEPP to convert LORS 2008 from an interim to a long-term, effectively permanent regulation schedule.

In its Final EIS for the LORS 2008 regulation schedule (which was adopted in the Record of Decision), the Corps stated:

"The Corps expects to operate under the LORS until the earlier of (1) implementation of a new Lake Okeechobee schedule as a component of the system-wide operating plan to accommodate the Comprehensive Everglades Restoration Plan (CERP Band 1 projects) and the State of Florida's fast track Acceler8 projects, or (2) completion of the [Herbert Hoover Dike] HHD seepage berm construction or equivalent dike repairs for reaches 1, 2 and 3. [T]he Corps will timely shift from the interim LORS to a new schedule with the intent to complete any necessary schedule modifications or deviations concurrent with completion of (1) or (2)." LORS 2008 Final SEIS iv (Nov. 2007) (emphasis added).

The Corps' assurances that LORS 2008 would be a relatively short-term plan were part of the basis for many stakeholders in South Florida to not oppose it in 2008. At that time, the Band 1 Projects all were scheduled to be completed by 2015, which meant that LORS 2008 was projected to be in effect for only seven years.

In its Scoping Response for the CEPP, the Corps now is indicating that LORS 2008 is a long-term, or even permanent, schedule. First, instead of assuming that LORS 2008 will no longer

be in effect once the "Band 1 Projects" and the key HHD repairs are complete, the Corps now assumes it could remain in effect for the next 50 years regardless of those projects' completion. Scoping Response states that "[t]he future without project condition includes the assumption that the Herbert Hoover Dike (HHD) rehabilitation will be complete." Scoping Response, at 22 (response to FDACS-1). The Corps also assumes that the projects previously referred to as "Band 1 Projects" will be complete: future without project condition includes the "First Generation" and "Second Generation" (i.e., the Corps is assuming that they will be completed), which when combined with the CEPP itself, represents all of the projects formerly identified as the "Band 1 Projects." In other words, both of the triggers for revision of the "interim" LORS 2008 will occur prior to, or concurrent with, the CEPP. Yet, the Corps Scoping Response indicates that "the LORS 08 schedule will be used" as the future without project condition. The Scoping Response also states that "[t]he CEPP study will not be the mechanism for changing LORS," Scoping Response, p. 22 (response to FDACS-1), and that "any analyses conducted during the study will not predetermine a change to the lake schedule ... as a result of additional CERP project implementation," id. at 38 (response to Crystals-3). If the CEPP is the "CERP project implementation" that will trigger changes to LORS 2008 (as indicated by the Corps in 2008), then the logical time to consider such changes to the lake schedule would be in the CEPP itself. The Corps' refusal to even consider such changes is inconsistent with its commitments made in 2008.

Second, the Corps appears to be changing its triggers for revisiting LORS 2008. In 2008, the Corps identified two separate triggers for revisiting LORS 2008: completion of a subset of HHD rehabilitation measures ("seepage berm construction or equivalent dike repairs on reaches 1, 2, and 3"), and the completion of the CERP Band 1 Projects and Acceler8 projects. LORS 2008 Final SEIS iv (Nov. 2007) (quoted above). Now, in its Scoping Response, the Corps states only that "LORS will be revisited upon completion of HHD modifications." Scoping Response at 37 (response to Crystals-This new formulation completely drops the trigger associated with completion of the early CERP projects (which will be fully accomplished through the CEPP itself), and it apparently makes consideration of a new regulation schedule dependent on completion of all HHD repairs, which will not be done for many years. effect is to allow the Corps to keep LORS 2008 in effect for decades, contrary to what the agency told stakeholders only a few years ago.

The Corps' failure to consider changes to LORS 2008 in the CEPP also appears inconsistent with the 1999 Approved CERP Plan. The 1999 Approved Plan includes a new "Lake Okeechobee Regulation Schedule (F)" as a Plan component. The purpose of that component, in part, was to develop operational rules for "discharges ... to the Everglades Agricultural Area reservoir." Final CERP Integrated Feasibility Study and Programmatic EIS, at 9-29 (1999). According to the 1999 Approved Plan, "[m]ost of the operational features will be implemented in association with related construction features." Id. For the "Lake Okeechobee Regulation Schedule (F)" component, one of the logical times to implement it would be in plan development for the "Everglades Agricultural Storage Reservoirs (G)" component, which the Scoping Response indicates is part of the CEPP. For the Corps now to say that it will not consider operational changes to Lake Okeechobee in association with the CEPP is inconsistent with the 1999 Approved Plan.

Many stakeholders are very concerned that the Corps is abandoning its commitments made in 2008 that the LORS 2008 schedule would be an interim schedule, and is making the LORS 2008 schedule permanent. This has the potential to undermine the CEPP, because it affects whether stakeholders will have the benefit of the Savings Clause enacted in 2000 with the changes made in the CEPP. The Corps can address this issue by agreeing to consider changes in the Lake Okeechobee regulation schedule as part of the CEPP and defining the water supply level of service in effect in 2000 as one of the goals of the CEPP. Also, if the Corps' statements in the Scoping Response regarding the longevity of LORS 2008 were mistaken, then the agency should immediately clarify its position.

Study Biases Related to Lake Okeechobee Water Storage. The Scoping Response also indicates that the Corps is building an inappropriate bias into the CEPP study related to storage and water levels in Lake Okeechobee. In response to a comment about the need for more water storage in the lake, the Corps stated that it would not consider changes to LORS 2008 in the CEPP and justified that decision based (in part) on the impacts of higher water levels on lake ecology. See Scoping Response, at 37 (response to Crystals-2). By so doing, it appears the Corps is taking "off the table" additional water storage in the lake based on the Corps' pre-study decision that the alleged impacts of higher water levels on in-lake vegetation will outweigh any regional benefits that could be provided by additional water storage in the Lake. This will bias the CEPP's analysis, because it means that the Corps is unwilling

to consider alternative plans which would reduce storage needs in the EAA and still avoid significant impacts to in-lake resources. We believe that is entirely inappropriate.

The Corps also appears to be assuming that LORS 2008 will be implemented in the future, without the adaptive protocols adopted by the South Florida Water Management District in 2010. When LORS 2008 was implemented, the SFWMD developed protocols designed to provide operational guidance in areas where the schedule alone is ambiguous. Among other adjustments, the protocols reflect the desire to eliminate Base Flow releases to the St. Lucie Estuary when the LORS 2008 schedule assumed they would be made. Recent modeling of the "Future Without Project Condition" (which will be the "no action" alternative under NEPA) shows significant reduction in the Lake stage and a noticeable increase in water shortage severity in several drought years. One of the causes of this reduction in the level of service for water supply is likely the way the LORS 2008 Schedule was assumed to be implemented for the FWO condition.

The Corps' failure to consider in-lake storage alternatives is inconsistent with important policy directives. The Florida Legislature made an express statutory finding "that additional water storage may be an appropriate use of Lake Okeechobee." § 373.4592(1), Fla. Stat. The Corps justified the cost of repairs to the HHD, as recently as last month in the FY 2013 Civil Works Budget Detail prepared for Congress, on grounds that such repairs "will allow the Corps to hold more water safely in the Lake, ... enable the Corps to release excess water to the estuaries ... in a more controlled, less damaging fashion," and "enable the Corps to release more water during dry periods to benefit the ecosystem of the Everglades." The National Research Council, in its 2008 Second Biennial Review of the CERP, stated that "rehabilitation of [HHD] may offer synergistic opportunities for creating additional CERP storage and managing water levels for the benefit of the littoral zone, and the costs, benefit, and hydrological and ecological viability of these options should be considered in any analysis of CERP storage alternatives." National Research Council, Progress Toward Restoring the Everglades: The Second Biennial Review, 182-83 The Corps should consider such options in the CEPP in light of these statements and recommendations.

This study does not comport with NEPA. The Corps is indicating that it is not going to consider reasonable alternatives

to its proposals to store water in the EAA as opposed to in Lake Okeechobee. All environmental impact statements require an analysis of reasonable alternatives to a proposal. 42 U.S.C. § 4332(2)(C)(iii). Corps project recommendations, in particular, are required to include alternatives that "promote integrated water resource management," without "budgetary or other policy" constraints. 33 U.S.C. § 2282a(f)(1)(A)-(B). Agencies cannot categorically refuse to consider reasonable alternatives because the agency has pre-decided a discretionary policy choice. 40 CFR §§ 1502.2(e), 1502.14(a), -(c). The Corps' use of a "no action" alternative which does not represent reality, as discussed above with regard to the SFWMD operating protocols, is also inconsistent with NEPA. The Corps should take an unbiased, hard look at the environmental choices and include alternatives that would use the lake for water storage instead of adding all new storage in the EAA, and use an accurate "no action" alternative.

Modifications to the Lake Okeechobee Regulation Schedule may be the easiest and least expensive alternative to provide additional water storage for environmental and human needs. We urge the Corps not to "stack the deck" at the start of the CEPP process, by refusing to even consider such modifications.

Loss of Agricultural Water Supply. As indicated in our earlier comments, Florida Crystals continues to be very concerned about the potential loss of water supply as a result of the CEPP. The Scoping Response does not dispute that LORS 2008 provides less water supply to agricultural uses than the previous WSE regulation schedule. See Scoping Response at 39-40 (response to Crystals-10). The Corps' own documents indicate that the LORS 2008 has a significant negative effect on agricultural water supply: attached is a 2007 Corps analysis which shows major negative impacts to agricultural water supply from that schedule. History has borne out those projections, as the water shortage in the spring of 2011 was made more severe by the releases of water from the Lake under the LORS 2008 Schedule. We are very concerned that the CEPP appears in contrary to the Savings Clause in WRDA 2000 as a result of its approach to water storage in Lake Okeechobee.

Recent presentations of hydrologic modeling outputs for the "Future Without Project Condition" reinforce our concerns about impairing the protections of the Savings Clause. In those presentations, water supply restrictions in the Lake Okeechobee Service Area are projected to increase. It is impossible based on the information presented to specify what is causing the impact but

at least one of the reasons is likely to be the assumptions about the C-44 Reservoir, a CERP project. The Project Implementation Report for the Indian River Lagoon (IRL) indicates that operation of the C-44 Reservoir will lead to a significant reduction in flow to the lake in low-water conditions. The Savings Clause prohibits the Corps from implementing such measures to the detriment of existing water uses without ensuring that there is a replacement source available. The IRL Project Implementation Report failed to consider the impact of this reduction in flow to Lake on other users in the Lake Okeechobee Service Area. The fact that the Corps appears to be ignoring the Savings Clause in its analyses of other CERP components, and is implementing the C-44 project despite Savings Clause issues, is troublesome.

Once again, the Corps should avoid the problem of waters supply reductions by considering changes to the lake regulation schedule to provide additional storage.

Limitation of CEPP to 1999 Approved CERP Plan. We previously commented that WRDA 2000 and the Programmatic Regulations require the Corps to limit the CEPP Project Implementation Report to the 1999 Approved Plan. The Scoping Response did not seem to respond to that point. We recognize the recommendation of the National Research Council that the Corps should follow an "incremental adaptive restoration" approach, and we support the concept of adaptive management in the scientific context. However, that recommendation does not override the limitations in Congress' approval of the 1999 Approved Plan; the procedural requirements contained in the Programmatic Regulations; or the requirements in NEPA concerning supplementation of the 1999 Programmatic EIS for the CERP. If the Corps believes it can make significant changes to the 1999 Approved Plan through the CEPP Project Implementation Report, then it needs to explain the legal basis for that position.

Water Quality Planning Considerations. The Scoping Response does not explain how the Corps can plan the CEPP without knowing the land requirements and water quality targets of the ongoing water quality litigation. See Scoping Response at 49 (response to Sugar-8). The Corps should identify those requirements as soon as possible, because they are fundamental planning constraints which both limit the types of plans which can be considered for the CEPP and whether the SFWMD has the financial resources to satisfy the CEPP.

<u>Water Supply Planning Considerations.</u> The Scoping Response indicates that the Corps will include goals and performance

measures related to improved water supply and economic well-being, in response to our suggestion. Scoping Response at 49 (response to Sugar-9). We appreciate the Corps' response to our suggestion. However, we are concerned that the water supply goals are being treated only as "incidental" to other goals for the CEPP, and that only "[w] ater retained in the Lake that is not identified for the natural system may be available for water supply." Corps' Presentation to PDT Regarding CEPP "Revised Objectives," Slide 4 (March 26, 2012). By this language, the Corps is subordinating the water supply needs of the people of South Florida to other goals, which is contrary to the 1999 Approved Plan and WRDA 2000. The Corps does not need to put local communities in a subservient position in order to achieve the environmental goals of the CEPP, and should treat the water supply objective as co-equal with other objectives in the CEPP.

Improved Flood Protection. The Scoping Response indicates that the Corps will include "protecting existing levels of flood protection" as a planning constraint. Scoping Response at 50 (response to Sugar-10). While we appreciate that improvement, we remind the Corps that we asked the Corps to use as a performance measure improving flood protection, because that is one of the specific authorized features of the EAA reservoir component contained in the 1999 Approved Plan. We ask the Corps not to abandon the goal of improving flood protection that was part of the 1999 Approved Plan and is a key component of the Central & Southern Florida Flood Control Project.

Restoration/Rehydration of Holey Land and Rotenberger Wildlife Management Areas. In response to our comment that the Corps should consider improvements to the Holey Land and Rotenberger Wildlife Management Areas as part of the CEPP, the Scoping Response indicates that "[t]he Corps will consider information from previous studies undertaken by the SFWMD to consider this option and determine if applicable for inclusion in the CEPP." Scoping Response at 40, 50 (response to Crystals-11 and Sugar-13). We are unaware of any studies by the SFWMD which address this issue; please identify them so Florida Crystals and others can provide input.

In addition, given the Corps' effort to fast-track the CEPP, it is unclear how much time the Corps has to determine if the Holey Land and Rotenberger components of the 1999 Approved Plan should be included in the CEPP. We continue to recommend that the Corps incorporate these components into the CEPP.

Thank you for considering our comments. We look forward to providing additional comments as the CEPP moves forward and the agencies develop specific proposals for public review.

With kind regards, I remain,

Yours truly,

William Tarr Vice President

Florida Crystals Corporation

/jcd

Enclosure

Copy w/encl. (via e-mail) to:

Mr. Joe Collins, SFWMD, Chair

Mr. Kevin Powers, SFWMD, Vice Chair

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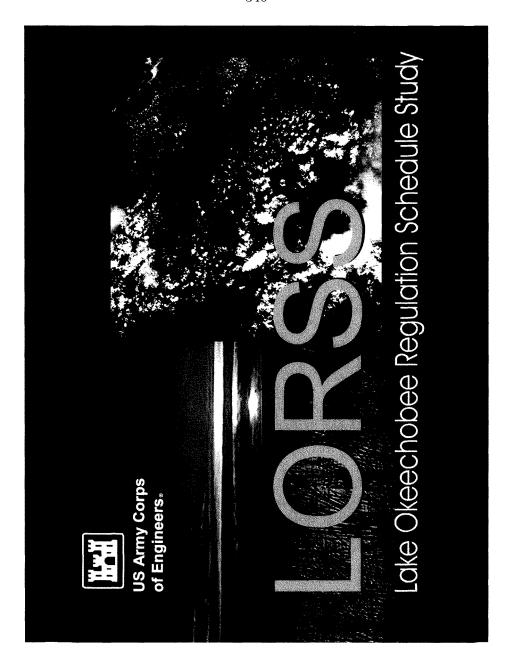
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Mr. Dennis Duke, Interior

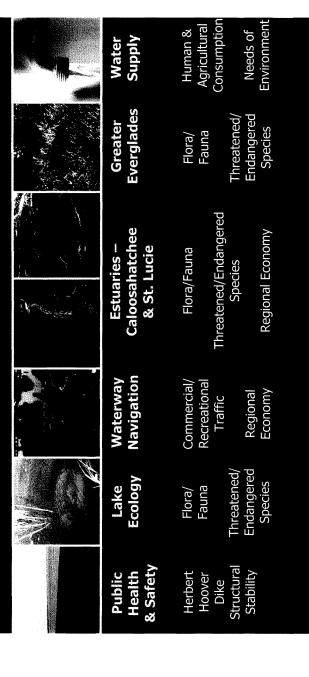
Mr. Tom MacVicar

Mr. Neal McAliley

Mr. Galen Miller



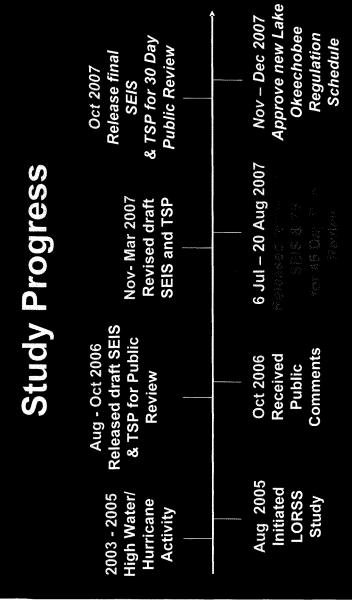
Study Performance Objectives



Agenda

- Background
- Revisions to Tentatively Selected Plan (TSP) for Lake Regulation Schedule
- Environmental Impact Statement (SEIS) Revisions to Draft Supplemental
- Summary
- Comments





LORSS Lake Okeechobee Regulation Schedule Study

Lake Management Challenges

One foot of rainfall in an already wet Okeechobee / Kissimmee basin equals about a four-foot rise in Lake Okeechobee. It would take about 75 days (max flow) to 230 days (preferred estuary flow) to return the lake to its original elevation.

Study Goals & Objectives

Ensure public health and safety

Manage Lake Okeechobee at lower lake levels Reduce high regulatory releases to the estuaries

Meet Congressionally authorized project purposes



Key Study Assumptions & Constraints

- SFWMD temporary forward pumps
- SFWMD implement new Lake Okeechobee
- Water Shortage
 Management Plan
 (DRAFT)

- Herbert Hoover Dike integrity
- Existing C&SF infrastructure
- Storm Water Treatment Area (STA) 3 & 4 capacity
- Simulation period-of-record 36 years (1965 2000)



What We Heard

- 17.25 high lake constraint
 - Consider SFWMD public / private lands for Lake water storage
- Water supply concerns
- Non-Typical Operations
- More equitable discharges to estuaries and WCA
- Release more low flows to reduce high discharges

- Concerns due to extreme high releases to Caloosahatchee Estuary
- Economic costs of high releases
- Account for wet weather cycleRelease more water south
- Increase storm water treatment areas and storage reservoirs



LORSS Lake Okeechobee Regulation Schedule Study

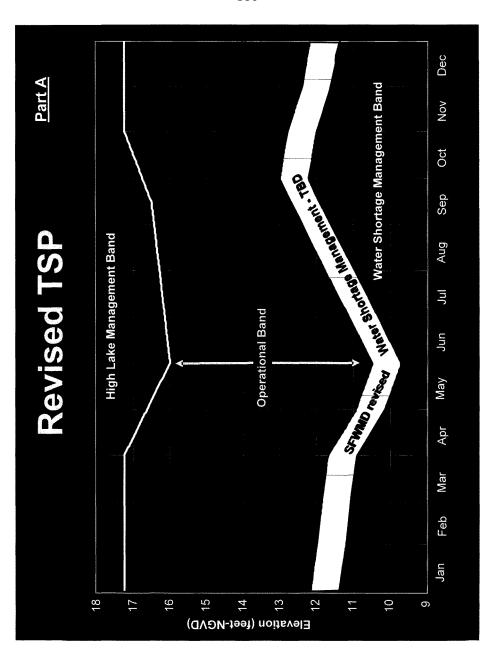
What We've Done

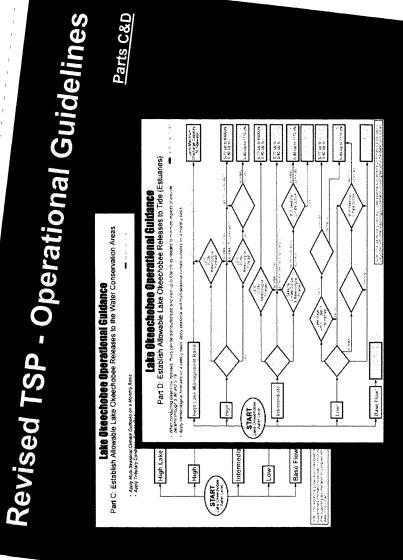
- Treats 17.25 as performance measure
- Manages the lake at lower elevations
- Allows for quicker response and operational flexibility to lake conditions and tributary inflows
- Improves preferred flow to the coastal estuaries
- (intermediate) high flow discharges to coastal estuaries Is equal to (extreme) and modestly improves
- Provides for base flow to the Caloosahatchee and St Lucie estuaries
- Measures pulse releases at S-79
- Allows for use of SFWMD lands for storage
- Expanding agency coordination on lake operations





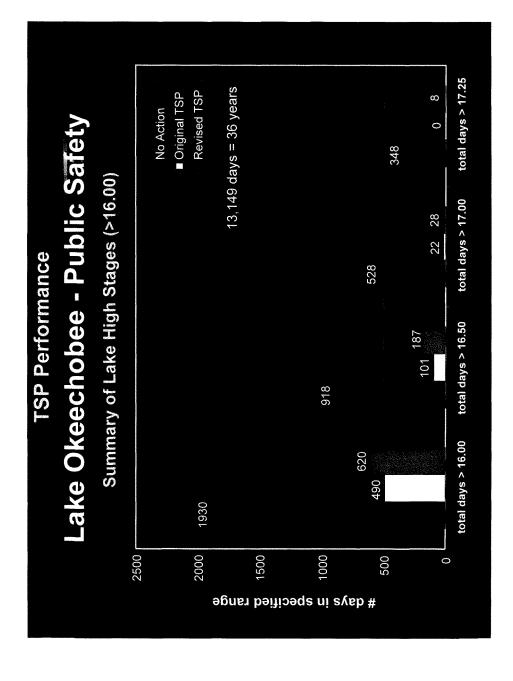
Tentatively Selected Plan

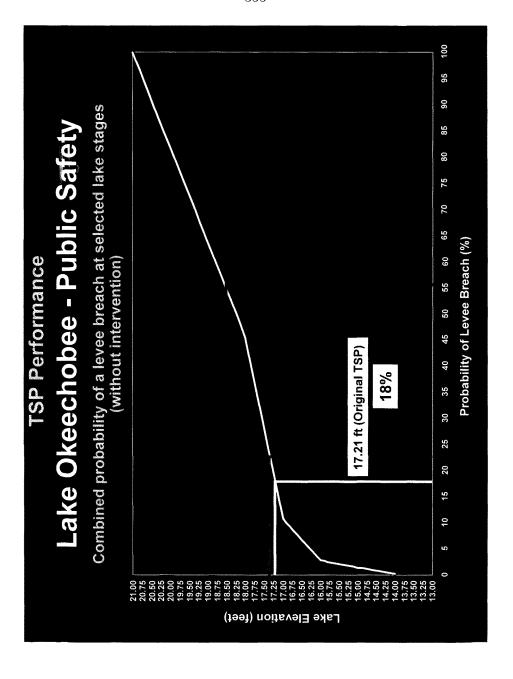


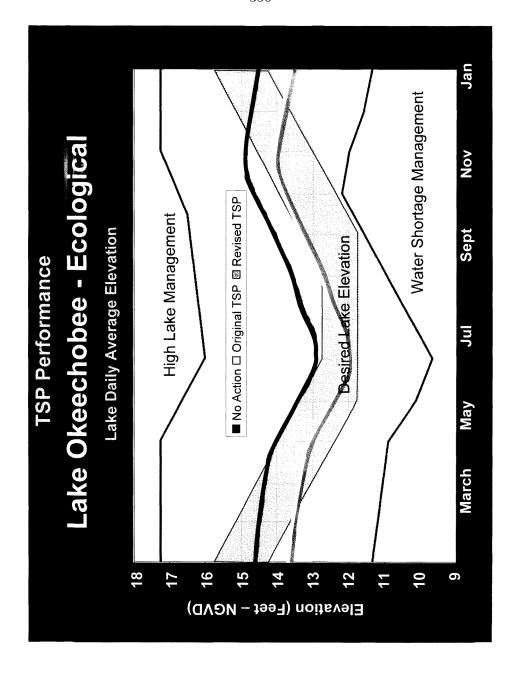


TSP Performance Lake Okeechobee

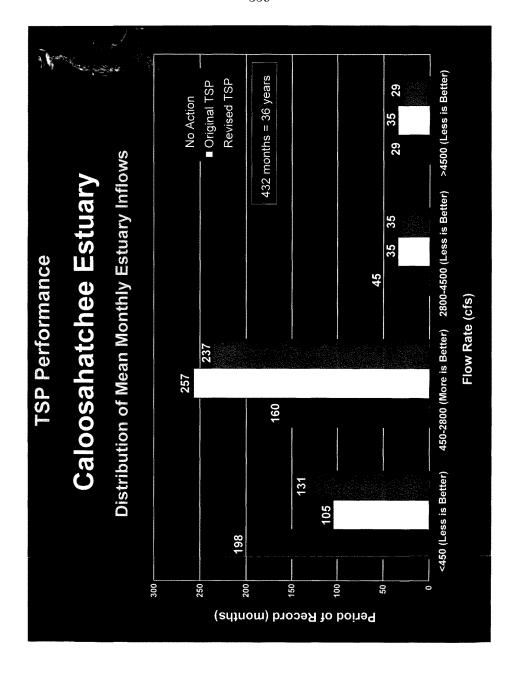
PON NOW

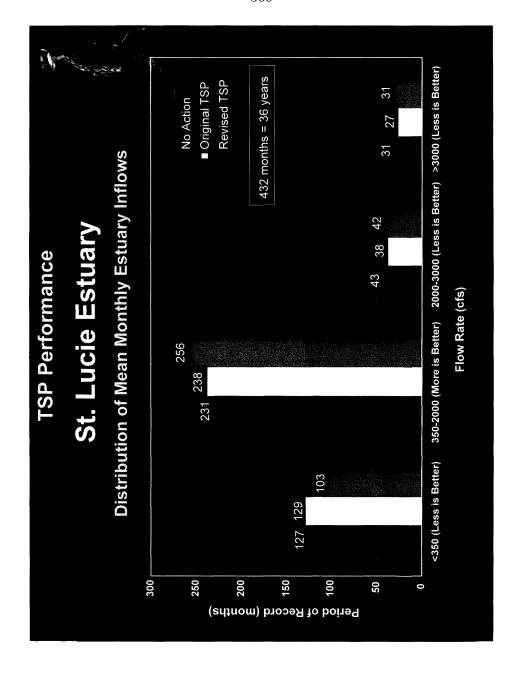






TSP Performance Estuaries Greater Everglades



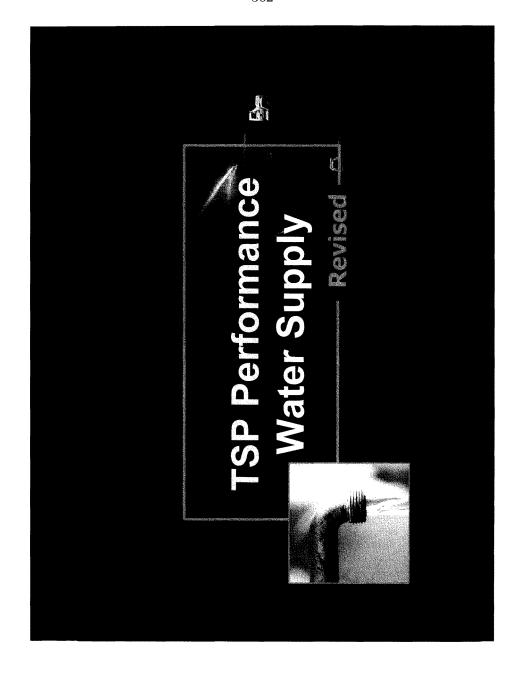


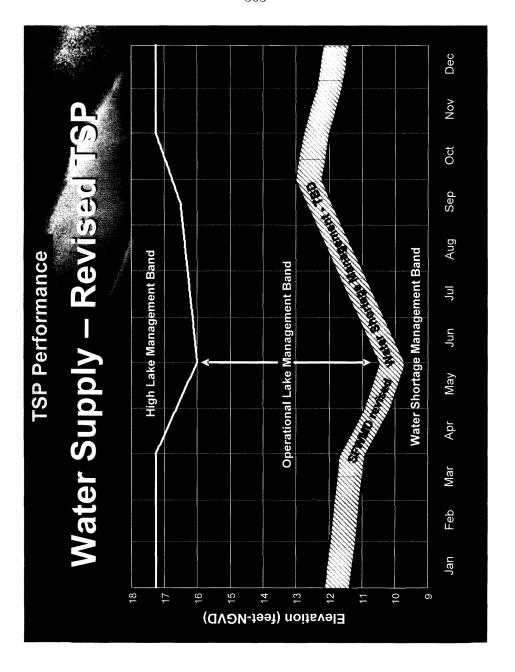
TSP Performance

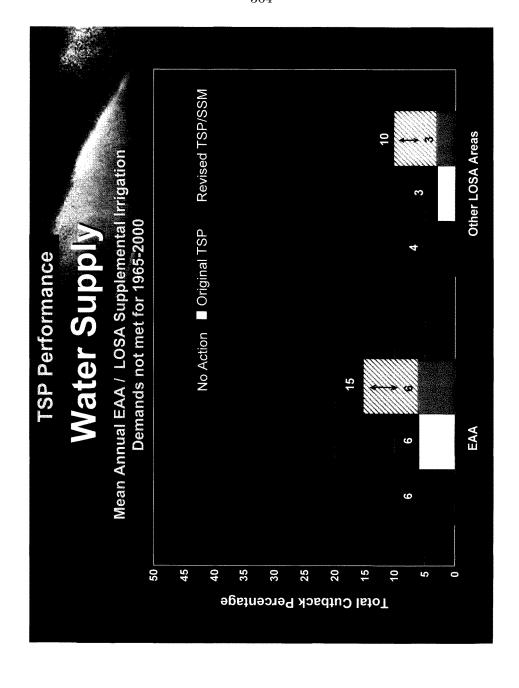
Greater Everglades

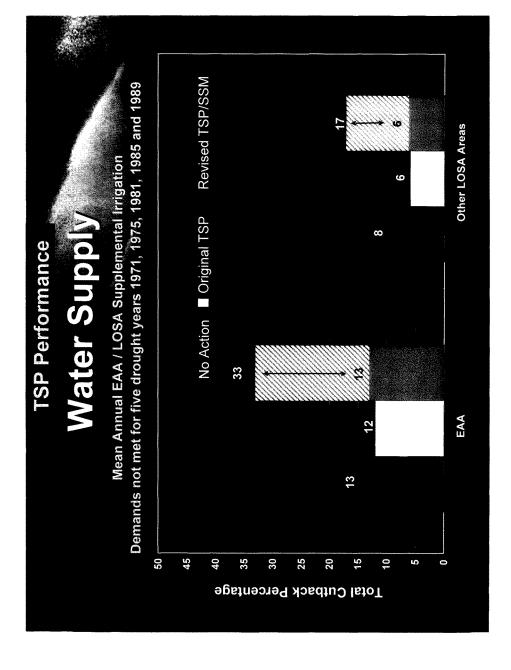
Performance Measures: Peat-dry out, tree island inundation, recession rates, water reversals, and snail kite habitat

- Results show only minor differences between the alternatives analyzed
- Ecologically, none of the differences are significant









Study Performance Objectives



LORSS Schedule

Task	Begin	End
Revised DSEIS in Fed Register	6 July 2007	
45 Day Public Comment Period	6 July 2007	20 Aug 2007
NEPA and WCP Public Meetings	7, 8, 13 & 14	Aug 2007
Final SEIS compiled	20 Aug 2007	20 Sept 2007
Final SEIS in Fed Register	5 Oct 2007	
30 Day Public Comment Period	5 Oct 2007	5 Nov 2007
FSEIS ROD & WCP Approval	Nov - Dec 2007	7(
Implement Interim Schedule	Jan 2008	

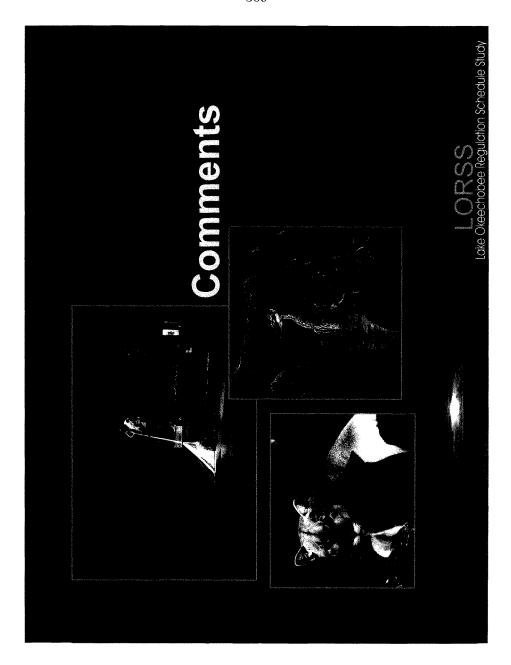
Public Comments

Jacksonville District website www.saj.usace.army.mil

Contact: Yvonne L. Haberer U.S. Army Corps of Engineers Jacksonville District 701 San Marco Blvd. Jacksonville, FL 32207-8175 Email: LORSSComments@saj02.usace.army.mil



LORSS Lake Okeechobee Regulation Schedule Study





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October 16, 2012

VIA E-MAIL AND U.S. MAIL

Dr. Gina Padua Ralph U.S. Army Corps of Engineers Planning Division P.O. Box 4970 Jacksonville, Florida 32232-0019

Re: Central Everglades Planning Project

Dear Dr. Ralph:

I am writing to provide further comments of Florida Crystals and its affiliates, including Okeelanta Corporation and New Hope Sugar Company, on the Central Everglades Planning Project (CEPP). This letter supplements our previous comment letters dated January 20, 2012, and March 30, 2012.

Florida Crystals supports the restoration of the South Florida ecosystem consistent with the approved 1999 Comprehensive Everglades Restoration Plan (1999 Approved Plan). That plan recognized the importance of restoring the hydrology of the Everglades while at the same time providing for the other water-related needs of communities in the region, including water supply and flood protection for all uses. To the extent that the CEPP can bring important projects on-line sooner, while remaining true to the balance and consensus reached in the 1999 Approved Plan, it will represent a great step forward.

1. Plan Development and Scoping

At the time of our previous comment letters, the U.S. Army Corps of Engineers (Corps) had not actually proposed any specific project for the CEPP. This made it extremely difficult to provide meaningful input, because there was nothing specific for members of the public to consider. When we pointed out that "scoping" was

premature under the National Environmental Policy Act (NEPA), the Corps "request[ed] [our] continued participation and feedback throughout the CEPP planning process." Corps' Scoping Response, at 46 (March 1, 2012).

Based on recent public workshops and presentations, it appears that project features within CEPP are taking shape. Federal and state planners have screened various alternatives north of the "redline" within the Everglades Agricultural Area (EAA), and appear to be proposing a Flow Equalization Basin (FEB) on the 14,000 acre so-called A-2 Compartment. Elements south of the "redline," within the Water Conservation Areas (WCA) and Everglades National Park, are still ill-defined other than a notion to partially fill the Miami Canal to promote sheetflow in WCA-3A. From what we can tell, the Corps has not identified final proposals for the elements of the CEPP in the Water Conservation Areas and Everglades National Park, nor has it identified revised operational rules for Lake Okeechobee needed to achieve the benefits of the proposed structural changes. Since all of these plan elements are interdependent, it is difficult to assess them in isolation and it is unclear when the Corps will announce a proposal for the overall CEPP that integrates all of the plan elements.

With the forthcoming identification of a specific proposal for overall CEPP, we recommend that the Corps re-initiate formal scoping pursuant to NEPA. NEPA regulations contemplate scoping after an agency proposal has been announced. 40 CFR § 1501.7; 33 CFR Part 230, App. C. The previous scoping period was premature because no proposal had been developed. Once the agency announces its proposal for the overall CEPP (which presumably will be in the coming months), the public will be in a position to provide meaningful comments. The Corps should not rush through development of the CEPP at the expense of public participation and input.

Reinitiating scoping will not delay the project. The CEPP proposal for the EAA element is to build an FEB on the A-2 site that would operate in conjunction with an FEB on the adjacent A-1 site, now part of the state's NPDES permits and Consent Order to meet water quality objectives. The proposed plan elements for the two sites apparently would have interdependent operations. The Corps issued its scoping notice for an Environmental Impact Statement (EIS) for the A-1 site proposal on August 28, 2012. Presumably the Corps cannot expect to complete its NEPA process for the CEPP element on the A-2 site before it completes the NEPA

process on the proposal to build an FEB on the A-1 site, because otherwise it cannot fully analyze all of the cumulative impacts of the two proposals. Re-initiating scoping on the CEPP element would put the two NEPA processes on a parallel schedule. Even if reinitiating scoping caused some delay, that would be a small price for having the public more fully engaged in the development of the CEPP.

In our continuing effort to provide constructive input, we offer these comments regarding the analysis of the EAA element of the CEPP for which a preliminary proposal has been identified. Since the Corps has indicated that each element of the CEPP is interdependent with the other portions, we reserve the right to provide additional comments as the Corps reveals more of its intentions to the public.

2. Alternatives to Proposed EAA Plan Elements

A. General Comments. We have several comments regarding how the Corps should approach the analysis of alternatives to the CEPP proposal for the EAA. First, the most important aspect of the Corps' forthcoming EIS for the CEPP is the consideration of alternatives. It is federal policy to "[u] se the NEPA process to identify and assess the reasonable alternatives to proposed actions that will avoid or minimize adverse effects of those actions upon the quality of the human environment." 40 CFR § 1500.2(e). The discussion of alternatives "is the heart of the environmental impact statement" and should "sharply defin[e] the issues and provid[e] a clear basis for choice among options by the decision maker and the public." 40 CFR § 1502.14. While the Corps is devoting significant time to developing a proposed plan for the CEPP, it is equally important that it develop a range of reasonable alternatives to that plan so that the choices are sharply defined.

Second, in light of the importance of the alternatives analysis, the Corps should disclose the alternatives to be analyzed prior to issuance of the draft EIS/Project Implementation Report (PIR). The alternatives developed by the Corps so far might be configured in ways that miss important issues or which otherwise fail to sharply define the choices for decision makers. Disclosing those alternatives before issuance of the draft EIS/PIR would enable members of the public to suggest improvements to them before they are analyzed fully, which could save time later in the process by minimizing the need to revise alternatives between the draft and

final EIS/PIR. We make this point because the "Central Everglades Process" chart being used by the Corps in various presentations states that the agency will "Develop TSP [Tentatively Selected Plan] and PIR" at the same time. See, e.g., CEPP Formulation Overview, at 5 (Aug. 29, 2012). Since a draft EIS/PIR must identify and analyze alternatives to the agency's proposal, 33 CFR § 385.26(b), this suggests that the Corps may not inform the public of which alternatives it is considering until the draft EIS/PIR is (Read literally, it also suggests that the Corps will not fully identify its proposal to the public until the draft EIS/PIR is issued.) Presumably, the Corps did not intend to suggest such a late disclosure by this chart, and plans to identify a full suite of alternatives before preparation of the draft EIS/PIR. approach would be consistent with the requirement in the Programmatic Regulations that "[b]efore completion of the draft Project Implementation Report, the Corps of Engineers and the non-Federal sponsor shall provide the South Florida Ecosystem Restoration Task Force with information about alternative plans developed and evaluated for the Project Implementation Report." 33 CFR § 385.26(a)(2) (emphasis added).

Third, the screening evaluation in the Project Delivery Team (PDT) process does not constitute consideration of alternatives for purposes of NEPA. The PDT does not include members of the public, agency participation in the PDT does not "substitute for consultation, coordination or other activities required by applicable law," and [d]ocuments and work products prepared or developed by the [PDT] [are] not ... self-executing." 33 CFR § 385.17(c)-(d). Moreover, the PDT process inherently involves policy choices relating to cost, comparative environmental effects in different natural areas, and political factors, and those choices are obscured by the fact that potential plan formulations are developed in closed meetings of computer modelers. While such a process may be appropriate for purposes of developing a Tentatively-Selected Plan, NEPA requires that the policy choices be revealed to senior agency decision makers and the public so that they can make their own judgments about the best way to move We recommend that if the Corps intends to consider forward. alternatives developed and rejected in the PDT process, that it fully analyze those alternatives in the draft EIS/PIR and identify the criteria by which they were rejected in the PDT process. We do not believe that this has been done to date, based on the presentations we have reviewed.

Fourth, the Corps should analyze an array of reasonable alternatives, and not limit its analysis of alternatives to those which it prefers. NEPA regulations require consideration of reasonable alternatives "not within the jurisdiction of the [Corps]." 40 CFR § 1502.14(c). "Reasonable alternatives include those that are practical or feasible from the technical and economic standpoint and using common sense, rather than simply desirable from the standpoint of the applicant." Forty Most Asked Questions Concerning CEQ's NEPA Regulations, 46 Fed. Reg. 18026 (March 17, 1981), Answer to Question 2a. Moreover, the regulations require the Corps to analyze alternatives that "sharply defin[e] the issues and provid[e] a clear basis for choice among options by the decision maker and the public." 40 CFR § 1502.14. Such alternatives typically are those which are not necessarily favored by the Corps (or all other agencies), but which highlight the trade-offs inherent in plan development. This means that the Corps should not artificially restrict the range of alternatives being analyzed in the draft EIS/PIR to those which the agency prefers, or which meet some unstated technical or policy criteria. previously have expressed concern that the Corps is artificially screening out alternatives that it does not prefer related to increased water storage in Lake Okeechobee and may be prioritizing environmental interests in the lake over environmental interests elsewhere in the region. See, e.g., March 30, 2012 Comment Letter, at 4-8. It also appears that the Corps may be impliedly prioritizing the Holey Land and Rotenberger Wildlife Management Areas over the Northern Estuaries and the Water Conservation Areas. The Corps should analyze alternatives in the EIS/PIR which it does not prefer, but which represent valid alternative means to achieve the project goals. The Corps should let the members of the public decide which alternatives they prefer, especially because the end result of the CEPP process will be to present a proposal to the people's elected representatives in Congress. The fact that the Corps analyzes certain alternatives does not mean that it supports such an alternative, but only means that it is allowing members of the public to make up their own minds. We are recommending such analyses in the same spirit, because we cannot know whether any individual alternative merits our support until we see the Corps' thorough analysis of it.

This is especially important in light of recent guidance of the National Research Council ("NRC") in its fourth biennial report on the "Progress Toward Restoring the Everglades" (July 2012). The

NRC is an independent scientific review body which provides input regarding progress toward achieving the natural system goals of the 1999 Approved Plan. In its most recent report, the NRC highlighted the "difficulty in achieving restoration goals for all ecosystem components in all portions of the Everglades," and indicated that "[n]early all Everglades restoration projects carry tradeoffs," including "tradeoffs between water quality and quantity." Since "[t]hese tradeoffs can be produced deliberately or as unintended consequences of project sequencing," the NRC recommended that there be "rigorous scientific analyses" of tradeoffs. In the context of the CEPP, the Corps needs to follow this advice of the NRC and expressly analyze different types of plan options so that potential tradeoffs are explored.

Fifth, the Corps should be clear in the draft EIS/PIR regarding the evaluation criteria being applied to each alternative. In the August 29, 2012 PDT meeting, it appears that cost was a primary consideration in rejecting a 12-foot deep reservoir on the A-2 site, and the proposed FEB was characterized as cost effective at \$165 million. See CEPP Formulation Overview, at 13-14 (Aug. 29, 2012). The Corps should identify the relative costs of all of these options and the level of costs which it deems to be cost prohibitive. Similarly, the Corps should identify the criterion it is using to weigh relative impacts to environmental interests in Lake Okeechobee, the Northern Estuaries, and the WCA's.

Finally, we are concerned that the Corps is not developing alternatives in the PDT process which would address the serious water supply concerns of agricultural interests and public utilities. We have noted in both previous comment letters that the 1999 Approved Plan was premised on both maintaining and improving water supply for existing uses. The Florida Legislature, in approving the SFWMD's participation as local sponsor, expressly stated that one of the plan's purposes was "the enhancement of water supplies." § 373.470(3)(b)(2), Fla. Stat. (emphasis added). This is illustrated by the "Everglades Agricultural Area Storage Reservoirs (G)" component of the 1999 Approved Plan, which called for water storage for agricultural users to mitigate any adverse effect caused by increased deliveries to the WCA's. Moreover, Congress prohibited the "eliminat[ion] or transfer [of] existing legal sources of water" in plan implementation "[u]ntil a new source of water supply of comparable quantity and quality as that

available on the date of enactment of [WRDA 2000] is available." WRDA 2000, Pub. L. No. 106-541, § 601(h) (5).

Despite these commitments, the Corps has exhibited an unwillingness to consider alternatives that would modify water regulation schedules to increase the water supply in Lake Okeechobee. See, e.g., Corps' Scoping Response, at 37. In contrast, at the June 2012 public workshop there were extensive presentations regarding potential modifications to the regulation schedules to address perceived environmental concerns in the lake and in the Northern Estuaries. See, e.g., Lake Okeechobee Ecology and Tier 2 Alternatives Evaluation (June 26, 2012). Moreover, to the extent the Corps has modeled effects of CEPP on water supply, it is our understanding that there would have been worse performance if the CEPP had been in place during the 2001 drought. We remain very concerned that the Corps is making no effort to address the important and valid water supply concerns of multiple uses in the development of the CEPP. Since it would take relatively little additional storage in Lake Okeechobee to address the water supply concerns of agricultural and urban uses, we once again ask the Corps to examine such options. This would be consistent with the Corps' significant progress in rehabilitating the Herbert Hoover Dike, and the Corps' assurances in 2008 that the current Lake Okeechobee Regulation Schedule would be revisited as progress was made on the dike rehabilitation efforts.

B. Potential Alternatives for Analysis

i. Alternatives Identified in the PDT Process

It appears that the Corps may have identified in the PDT process at least some potential alternatives related to the EAA elements of the CEPP.

<u>Proposed Action</u>. The Corps has identified the Proposed Action as a 14,000 acre FEB on the A-2 site which will operate in conjunction with the separately proposed FEB on the A-1 site. From what we understand, the Proposed Action assumes that the FEB will reduce phosphorus levels in the water delivered to it, and that the FEB will not have to be kept wet (like an STA) to avoid releasing phosphorus from the soil after drying out.

The Proposed Action will need to define how Lake Okeechobee water control structures will be operated with the "new" water

delivered to the FEB on the A-2 site. The 2008 Lake Okeechobee Regulation Schedule was modeled with the assumption that regulatory releases to the WCA's would be limited to ~60,000 acre feet per year. Lake Okeechobee Regulation Schedule Study, Final EIS, at 22-23 (Nov. 2007). The CEPP apparently assumes that an additional 200,000 acre feet of regulatory releases will be made from Lake Okeechobee to the WCA's, more than quadrupling deliveries from the lake.

In analyzing the Proposed Action, the Corps should critically analyze the validity of its assumptions underlying that plan. particular, the Corps should analyze how "new" lake water can be held in the proposed FEB for the A-2 site, and whether all of the additional 200,000 acre feet identified for treatment in STA 3/4 and Compartment B can be delivered through that FEB. In addition, the Corps should analyze whether in fact the FEB will reduce phosphorus levels in the lake water delivered to it. The Corps also should analyze the assumption that the FEB could be allowed to dry-out, as there is a risk that phosphorus trapped in the soil of the FEB could be released. Keeping the FEB wet, even in dry periods, would require special water deliveries to the FEB when all water users need water, and could exacerbate water supply conflicts. The draft PIR/EIS should address whether there is a plan to re-wet the FEBs with local runoff in such a way that release of phosphorus from the dried soils will not be passed on the STAs. If so the basis for such a plan, and the data used to derive it, should be presented.

<u>No Action</u>. NEPA regulations also require the Corps to analyze the "No Action" alternative. 40 CFR § 1502.14(d). Based on indications to date, it appears that the No Action alternative would assume no new water management features on the A-2 site, but would assume that an FEB would be built on the A-1 site. Since the CEPP assumes there is excess capacity in the A-1, STA 3/4 and Compartment B facilities, the No-Action Plan should to provide some of the benefits expected by adding the A-2 site. This information should be presented as part of the No-Action Plan.

Reservoir Options. It appears that the Corps has considered several reservoir configurations on the A-2 site, including reservoirs with depths in the range of 4-12 feet. See, e.g., CEPP Overview, at 11-13 (Aug. 29, 2012). In particular, the PDT screening exercise indicated that "[t]he 12-ft Reservoir provides the greatest benefits for the Everglades; however, the cost is

prohibitive and 12-ft Reservoir configurations were eliminated from further consideration." Id. at 13. Even if the Corps eliminated a 12-foot deep reservoir on the A-2 site for purposes of identifying the agency's proposal, that does not mean that it should be eliminated from the NEPA analysis. Based on this preliminary analysis, we assume that the Corps will include at least the 12-foot reservoir as an alternative for analysis, because that could highlight the tradeoff between providing additional water and cost.

ii. Additional Alternatives for Analysis

In addition to those alternatives identified by the PDT, we ask the Corps to analyze several other alternatives to its Proposed Action in the draft EIS/PIR. All of these alternatives could meet the CEPP's goals of delivering "new" water to the Water Conservation Areas, and are reasonable from a technical and economic standpoint.

Lake Okeechobee Storage Alternative. The Corps should include an alternative that would store additional water in Lake Okeechobee instead of at the A-2 site. The Corps would do this through modification of Lake Okeechobee operations or the regulation schedule and Water Control Plan if necessary. As noted above, the 2008 Lake Okeechobee Regulation Schedule assumes a limitation on regulatory releases to the WCA's of approximately 60,000 acre feet per year. The Proposed Action seeks to deliver approximately 200,000 additional acre feet per year to the WCA's. Under this alternative, the Corps would store and move the additional water from Lake Okeechobee to the A-1 FEB or directly to STA 3/4 and Compartment B when there is capacity. This alternative also could analyze conveyance improvements in the EAA to facilitate delivery of that water.

This alternative is reasonable from a technical standpoint. Water levels in Lake Okeechobee historically were maintained at significantly higher stages than currently occur under the 2008 Lake Okeechobee Regulation Schedule. The primary reason why the Corps adopted the 2008 schedule was due to the age of the Herbert Hoover Dike, and the belief that rehabilitation of the dike is needed to safely hold higher water levels in the lake. Since 2008, the Corps has made significant progress in its rehabilitation of the Herbert Hoover Dike. Earlier this year, the Corps reported to local stakeholders that all repairs were scheduled to be completed by approximately 2022 and the repairs in the most critical segments

would be complete sooner. See, e.g., Herbert Hoover Dike Rehabilitation Project, Water Resources Advisory Commission, at 15 (Feb. 2, 2012). It is unclear that any additional improvements to the dike would be necessary for this alternative, because it could require only a relatively small amount of additional water to be stored in the lake. Recent statements by the Corps have confirmed that the 20 miles of slurry wall that have been completed have addressed the most at-risk sections of the dike. Even if dike rehabilitation work would need to be completed to accommodate more water storage, the time frame for substantial completion of this project is comparable to a realistic schedule for the CEPP, which after plan development, approval by Congress and the Florida Legislature, and construction, probably could not be implemented until at least 2020.

A limited lake-storage alternative would present multiple advantages over the Proposed Action. This alternative would allow for the storage of much greater quantities of water than the Proposed Action, and presumably would be able to store amounts of water comparable to or greater than the "12-foot Reservoir" alternative which the PDT determined "provides the greatest benefits for the Everglades." CEPP Overview, at 13 (Aug. 29, 2012). Since at least some of the storage could be achieved almost immediately without regard to the longer-term dike repairs, this alternative could provide benefits to the WCA's much sooner than the Proposed Action. This alternative would avoid the need to spend any funds at the A-2 site (estimated at \$165 million for the Proposed Action), freeing up those funds for CEPP elements south of the EAA. To the extent that additional funds would be needed to expedite repairs of the Herbert Hoover Dike, those funds would serve the dual purpose of public safety and environmental restoration.

The Corps does not have to prefer the lake-storage alternative at this stage, but it must include it in the draft EIS/PIR to "sharply defin[e] the issues and provid[e] a clear basis for choice among options by the decision makers and the public." 40 CFR § 1502.14.

in the PDT process at the potential for the site also to provide agricultural water supply. This is contrary to the 1999 Approved Plan, where the EAA reservoir feature explicitly called for stored water to be used both for agricultural and environmental water supply.

An EAA Water Supply Alternative would be consistent with the "Everglades Agricultural Storage Reservoirs (G)" component identified in the 1999 Approved Plan. As described in that plan (at pages 9-9 and 9-10),

"Runoff from the EAA, Miami and North New River Canal Basins and regulatory releases from Lake Okeechobee will be pumped into the reservoirs. [There would be three equally sized compartments.] Compartment 1 discharges will be used to meet EAA irrigation demands only. Compartment 2 discharges will be used to meet environmental demands as a priority and can be used to supply a portion of agricultural demands if the environmental demands equals zero. Compartment 3 discharges will be used to meet environmental demands."

Since the Corps separately is considering an FEB on the A-1 site, which is equivalent to a compartment that will discharge EAA runoff into STA 3/4 and Compartment B, the A-2 site could be used for both environmental and agricultural water supply.

We are concerned that the failure to include an agricultural water supply feature to the A-2 reservoir signals a de-facto abandonment of the 1999 Approved Plan. At a minimum, in addition to analyzing additional water storage in the lake, the Corps should include an alternative consistent with the 1999 Approved Plan in which the EAA reservoir would store water for both agricultural and environmental uses. If the Corps is unwilling to consider such alternatives, then it should prepare a Comprehensive Plan Modification Report pursuant to the Programmatic Regulations, and explain to Congress how it plans to address water supply to agricultural users and flood protection in the EAA.

Conveyance, Delivery and Treatment Alternatives. We recommend that the Corps also include alternatives related to the delivery and/or management of Lake Okeechobee water before it reaches WCA-3A. The Proposed Action calls for water to be sent from Lake

Okeechobee to the FEB on the A-2 site, and then sent to STA 3/4 or Compartment B for treatment before being discharged directly to WCA-3A. From what we understand, the Corps assumes that phosphorus levels in the lake water will be reduced as a result of storage in the FEB and treatment in the Stormwater Treatment Areas.

The Corps should consider the efficacy of canal improvements within the EAA, which could improve the ability to deliver more water to the Central Everglades. In particular, improvements to the Eastern Bolles Canal could improve the ability to deliver additional flow to the STA's in wet periods when the canals otherwise are at capacity.

The Corps also should evaluate the phosphorus reduction abilities of the EAA canals themselves. It long has been known by the SFWMD that phosphorus concentrations decrease in water being conveyed in primary EAA canals. For example, there is significant long-term data indicating the STA 3/4 Supply Canal reduces phosphorus levels by approximately 25 ppb from the point where water enters that canal at the G-370 and G-372 structures to the point where it enters STA 3/4. (A summary of this data is attached.) It has also been demonstrated that water that is now sent to the STAs from Lake Okeechobee is much higher in phosphorus when it leaves the lake than it is when it enters the STAs. The Corps should analyze this phosphorus-reduction effect in the CEPP, because it both provides an opportunity for additional phosphorus removal, and the bypassing of the STA 3/4 Supply Canal in the Proposed Action could have the effect of reducing treatment of the "new" water delivered from the lake.

Another alternative the Corps should analyze is the potential for excess lake water to be delivered to the Holey Land and Rotenberger Wildlife Management Areas, which are located in the EAA, perhaps in the manner (for the Holey Land) discussed at the August 29, 2012 PDT meeting. This concept was raised by several Everglades scientists at a recent PDT meeting, and by representatives of interests in the Northern Estuaries. Both of these areas are unnaturally dry, do not function as historic Everglades marshes, and could benefit from rehydration and provide additional system-wide benefits by facilitating the conveyance of more excess Lake water to the Central Everglades. So long as existing users' water supply is not compromised, there is an opportunity to deliver excess water from Lake Okeechobee to these areas to restore their natural hydrology and to reduce the amount

that must be diverted to the estuaries. This is an example of the type of trade-off the National Research Council thought should be debated, and it seems like an opportunity for restoration that the Corps should not ignore.

Each of these concepts has the potential to be combined with different alternatives in the draft EIS/PIR. We recommend that you consider them, either alone or in combination, as they have the potential to improve the performance of other alternatives. We suggest them here because we believe that the EIS/PIR should sharply define the choices, not because we know that they will be effective or even that we support them. Like other members of the public, we need the Corps to present the options and analyze them so that we have sufficient information to make informed decisions.

The Corps needs to address the coordination between the EAA elements of the CEPP and the new water quality restoration measures for the EAA. There now are two proposals for FEB's that would store water for delivery to STA 3/4 and Compartment B: one 14,000-acre FEB on the A-1 site proposed by the SFWMD related to the recent water quality settlement with federal agencies, and a second 14,000-acre FEB on the A-2 site proposed by the Corps as an element of the CEPP. Both of these FEB's would be located on the property purchased from the Talisman Sugar Company in the 1990s. Under the CEPP both FEB's would operate in conjunction with one another, but under the water quality settlement the A-1 is operated solely to serve its existing drainage area.

We recommend that the Corps explain how it will integrate its NEPA review of the two FEB's proposed for the A-1 and A-2 sites. These two FEB's clearly are connected actions, with cumulative impacts. NEPA regulations generally require agencies to include in a single NEPA document "proposals or parts of proposals which are related to each other closely enough to be, in effect, a single course of action." 40 CFR § 1520.4(a). Yet, the Corps is moving forward with two separate EIS's on the two FEB's at the same time. This appears to be an improper approach to NEPA review, which at a minimum will complicate the analysis of cumulative impacts of the two FEB's. The Corps should very clearly explain how these two NEPA reviews will be coordinated to minimize overlap, ensure that

cumulative impacts are evaluated fully, and avoid any predetermined outcomes for the CEPP.

The Corps also should clearly explain how the two FEB's will be operated in relation to STA 3/4 and Compartment B. It has been explained by the Corps and the SFWMD at public meetings that the FEB on the A-1 site would receive only EAA runoff, and would hold that water before treatment in STA 3/4 and Compartment B to meet the Water Quality Based Effluent Limitation (WQBEL) in the new NPDES permits. The agencies also have explained that the FEB on the A-2 site would receive "new" water from Lake Okeechobee, and that it can be treated in STA 3/4 and Compartment B when there is excess capacity there, without causing a violation of the WQBEL. The operational rules for these two FEB's should be made explicit in the two NEPA documents, so that there is no confusion at a later date.

We hope that the agencies' analysis of phosphorus reductions that will result from use of the A-1 FEB are correct. We also hope that the addition of "new" water from Lake Okeechobee will not diminish the phosphorus reduction performance of STA 3/4 and Compartment B, or cause a violation of the WQBEL. However, the Corps should make clear that if there is a violation of the WOBEL in the NPDES permits for STA 3/4 and Compartment B, that the first priority for treatment in those stormwater treatment areas will be EAA runoff. In other words, if the agencies later determine that the inflows to STA 3/4 and Compartment B need to be reduced in order to comply with the NPDES permits, then inflows of "new" water from Lake Okeechobee should be the first to be reduced. This is important because the first priority of STA 3/4 and Compartment B is to treat EAA runoff. The Corps therefore should make clear in the various NEPA documents, including the draft EIS/PIR for the CEPP, the operational rules for sending water to STA 3/4 and Compartment B. The Corps also should make clear that EAA runoff will be 'held harmless' if there is a WQBEL violations in STA 3/4 and Compartment B resulting from introduction of new water from Lake Okeechobee.

From what the agencies have explained at public workshops, the goal of the CEPP is to increase annual regulatory releases from the lake to the WCA's from $\sim\!60,000$ acre feet to $\sim\!260,000$ acre feet. The CEPP project in the EAA to accomplish that goal is the combination of a new FEB on the A-2 site and what is assumed to be an existing FEB on the A-1 site. That indicates that an FEB the

size of the entire A-1 site might not be needed to handle EAA flows, and that the proposed A-1 FEB is at least in part being designed for restoration purposes. This would open up opportunities for 50-50 federal-state cost sharing on at least part of the proposed A-1 FEB, which could help stretch the total state dollars available to restore the Everglades.

Thank you for considering our comments. We look forward to continuing to work with the Corps as it moves forward with development of the CEPP. With kind regards, I remain,

Yours truly,

William Tarr Vice President

Florida Crystals Corporation

/jcd Enclosure

Copy w/encl. (via e-mail) to:

Mr. Joe Collins, SFWMD, Chair

Mr. Kevin Powers, SFWMD, Vice Chair

Ms. Sandy Batchelor, SFWMD Board Member

Mr. Daniel DeLisi, SFWMD Board Member

Mr. James J. Moran, SFWMD Board Member

Mr. Daniel O'Keefe, SFWMD Board Member Mr. Juan M. Portuondo, SFWMD Board Member

Mr. Timothy Sargent, SFWMD Board Member

Mr. Glenn J. Waldman, SFWMD Board Member

Ms. Melissa Meeker, SFWMD

Mr. Matt Morrison, SFWMD

Mr. Tom Teets, SFWMD

Ms. Kimberly Taplin, USACE

Mr. Steven Kopecky, USACE

Mr. Dennis Duke, Interior

Mr. Neal McAliley

The charts below show the relationship between the flow, load and concentration of the water pumped from the District's primary canals (Miami(G-372) and North New River (G-372)) toward STA 3/4 and the flow that actually enters the STA. The data show a 1.3 percent reduction in the flow quantity over the 7 year period the STA has been operating with an accompanying 23 percent reduction in load and 26 percent reduction in phosphorus concentration.

Figure 1. Flow pumped from the District's primary canals (Miami(G-372) and NNR (G-372)) and the flow that enters STA-3/4. (in thousands of acre-feet)

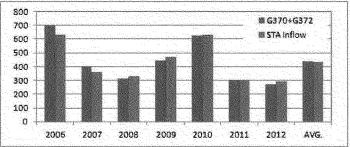


Figure 2. Phosphorus Load pumped from the District's primary canals (Miami(G-372) and NNR (G-372)) and the load that enters STA-3/4. (in kilograms)

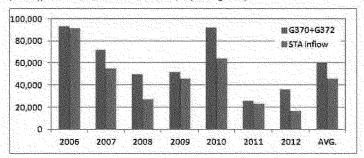
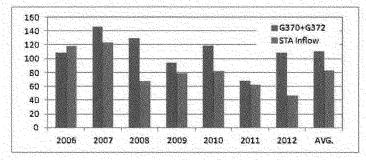


Figure 3. Phosphorus concentration of runoff pumped from the District's primary canals (Miami(G-372) and NNR (G-372)) and the concentration that enters STA-3/4. (in kilograms)





MARTIN COUNTY

BOARD OF COUNTY COMMISSIONERS

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TARYN KRYZDA, CPM County Administrator December 17, 2012

LTC. Thomas M. Greco Deputy District Commander United States Army Corps of Engineers 1400 Centrepark Boulevard Suite 750 West Palm Beach, FL 33401

Dear Colonel Greco:

It is so heartening that Army Corps is listening to our plea to protect the Estuary from Lake Okeechobee releases. We all recognize that 200,000 acre/feet is just a beginning, but it is a strong, positive beginning. There is no magic; it will take vast complex planning and significant funding. But now, Army Corps has embarked upon a path that can eventually lead to a solution; a solution requiring perseverance and continued dedication of us all to achieve.

Many thanks for your strong efforts in this quest.

In gratitude,

Ed Fulding E

Martin County Commissioner District 2

EF:rz

TELEPHONE 772-288-5400

WEB ADDRESS

1000 Friends of Florida • Audubon Florida Clean Water Action • CRCA Riverwatch Everglades Foundation • Everglades Law Center Everglades Trust • Florida Wildlife Federation National Parks Conservation Association • Sierra Club

June 1, 2012

Colonel Alfred A. Pantano, Jr. U.S. Army Corps of Engineers 701 San Marco Boulevard Jacksonville, FL 32207-0019

Melissa Meeker Executive Director South Florida Water Management District 3301 Gun Club Road West Palm Beach FL 33406

Re: Central Everglades Planning Project

Dear Col. Pantano and Ms. Meeker,

We write to express our great appreciation to you and your hardworking team for your efforts in moving forward the Central Everglades Planning Project ("CEPP"). This project has the potential to provide significant benefits for the natural system on a timeframe that recognizes the immediate need to reverse ongoing declines in the Everglades ecosystem. We are concerned, however, with recent statements by some members of the agricultural community suggesting that CEPP must "make up" for irrigation water lost due to implementation of the Lake Okeechobee Regulation Schedule of 2008 (LORS 08), or risk violations of the Savings Clause. This position is entirely without merit and is contradicted by State and Federal law, the Programmatic Regulations, and interpreting guidance memoranda.

As the Water Resources Development Act of 2000 ("WRDA 2000") provides, "the overarching objective of the Plan is the restoration, preservation, and protection of the South Florida Ecosystem while providing for other water-related needs of the region, including water supply and flood protection." Thus, we believe it is critical to ensure the focus of CEPP remains on environmental restoration objectives, while maintaining the protections for water users envisioned by WRDA 2000. To this end, we're pleased the presentations at the May 14, 2012 CEPP Project Delivery Team meeting indicated that all

alternatives currently being evaluated provide environmental benefits for the Everglades and estuaries without reducing agricultural water supplies.

We understand the agricultural community's desire to use the CEPP planning process as a means of increasing its level of certainty for water supply purposes to levels experienced under previous Lake regulation schedules. However, CEPP is simply not the appropriate forum in which to undertake a revision of the Lake's regulation schedule. Additionally, LORS 08 was "an intervening non-CERP action," and therefore, any diminished quantity of water that any user may experience as a result of that non-CERP action does not result in a Savings Clause violation.

WRDA 2000 contains the provision commonly known as the Savings Clause. It states, "[u]ntil a new source of water supply of comparable quantity and quality as that available on the date of the enactment of this Act is available to replace the water to be lost as a result of implementation of the Plan, the Secretary and the non-federal sponsor shall not eliminate or transfer existing legal sources of water, including those fo an agricultural or urban water supply." This provision requires that the existing legal sources of water for the environment, agriculture, or any user not be eliminated as a result of implementation of the Plan. LORS 08 was not developed as part of CERP, but rather was developed and implemented because of threats to human health and safety due to a compromised dike.

The Programmatic Regulations Pre-CERP Baseline Memorandum makes clear that governmental actions can and will affect CERP projects outside the scope of CERP,² without triggering violations of the Savings Clause, and the CERP Guidance Memoranda even include the Lake Okeechobee Regulation Schedule as an example of such an intervening condition.³

The Programmatic Regulations state, "In many cases, the existing legal sources and levels of service for flood protection that existed in December 2000 will be altered or changed before a CERP project is implemented. These changes may result from actions by Federal, State and local governments – actions that are wholly outside the Plan process. These 'intervening' non-Plan conditions, brought about by the implementation and operation of non-Plan actions after December 2000, but before a Plan project becomes operational, will change the hydrologic conditions from those reflected in the Pre-CERP Baseline."⁴

The CERP Pre-CERP Baseline Guidance Memoranda states:

"Examples [of such 'intervening non-Plan conditions] include...changes to operations of the C&SF Project system (e.g., IOP, CSOP, Lake Okeechobee Regulation Schedule)...This Guidance Memorandum provides guidance to PDTs in their analyses when dealing with intervening non-CERP activities. In general, the

¹ WRDA 2000, § 601(h)(4)(A) (emphasis added).

² See Programmatic Regulations Pre-CERP Baseline Memorandum at 10 (April 2005).

³ See Guidance Memoranda at 3-8, 2007.

⁴ Programmatic Regulations Pre-CERP Baseline Memorandum at 10 (April 2005).

following principles will apply:

The Savings Clause does not require CERP to make up for reductions in quantity and quality of existing legal sources of water or levels of service for flood protection caused by intervening non-CERP activities, but it does prohibit CERP projects from further reductions."⁵

Using LORS 08 as a planning constraint for CEPP is not a violation of the Savings Clause. Any reduced level of service for agricultural uses since the passage of WRDA 2000 as a result of LORS 0 is an intervening non-Plan condition, and therefore, any resulting diminished quantities of water to any user does not violate the Savings Clause.

We support current efforts to maximize flexibility within the LORS 08 schedule to increase environmental benefits to the Everglades while reducing harmful discharges to the estuaries and protecting the ecology of Lake Okeechobee. However, we are concerned about any suggestions to use CEPP as a vehicle for changing the regulation schedule. The Lake regulation schedule involves a suite of issues that have been in the past, and will continue in the future, to be the subject of complex and independent decision-making. Sweeping those issues into CEPP would impossibly complicate efforts to formulate a restoration project for the central Everglades in an 18-month timeframe. CEPP, given its importance and scope, must maintain its focus on restoring the natural system within the limits of LORS 08 and other constraints established at the outset of this planning process.

As LORS 08 is the current operating regime, incorporating it as the "future without plan" condition is appropriate. Reliance on any other plan yet to be developed as part of a process outside of CERP and CEPP, would be speculative. We note that Congress understood that a variety of factors might affect the precise suite of projects and plans that would comprise CERP; what mattered was not "adherence to the modeling on which the April, 1999 Plan was based," but rather "restoration of the Everglades." In short, Congress made clear that it would not want adherence to modeling that did not reflect current conditions to impede progress toward Everglades restoration.

Instead of considering wholesale revisions to LORS 08 or a new regulation schedule entirely, we are pleased to see that the involved agencies are evaluating additional flexibility within the existing schedule as a way to maximize benefits to the natural system. We are encouraged by early modeling results which suggest that by utilizing the flexibility built into LORS 08, we can further minimize harmful impacts to the

Endorsement of the Plan as a restoration framework is not intended as an artificial constraint on innovation in its implementation. The committee does not expect rigid adherence to the Plan as it was submitted to Congress...*Restoration of the Everglades is the goal*, not adherence to the modeling on which the April, 1999 Plan was based.

⁵ Guidance Memoranda at 3-8, 2007 (emphasis added).

⁶ Legislative Report to the U.S. Senate Committee on Environment and Public Works for WRDA 2000 at 40-41 (emphasis added). The report states:

Caloosahatchee and St. Lucie estuaries, while also increasing water quantities delivered south for the Everglades without reducing the levels of service for agricultural users. As the CEPP progresses into the evaluation and development of plan components, we urge the team to identify and select the components that produce the greatest quantity of beneficial water for the natural system and to clearly identify that water so that it can be reserved by the South Florida Water Management District for these purposes.

We ask the U.S. Army Corps of Engineers and the South Florida Water Management District to reiterate a commitment to ensuring that CEPP results in meaningful restoration of the heart of Everglades by sharpening the focus on restoration and increased water for the ecosystem. We remain committed to supporting this groundbreaking effort, and thank you again for your tremendous vision and hard work.

Sincerely,

(signatures waived to expedite delivery)

Charles G. Pattison, FAICP President 1000 Friends of Florida cpattison@1000fof.org

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Manley Fuller President Florida Wildlife Federation wildfed@gmail.com

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Jonathan Ullman Senior Everglades Representative Sierra Club jonathan.ullman@sierraclub.org

Cc: Joe Collins, SFWMD, Chair
Kevin Powers, SFWMD, Vice Chair
Sandy Batchelor, SFWMD Board Member
Daniel Delisi, SFWMD Board Member
James J. Moran, SFWMD Board Member
Daniel O'Keefe, SFWMD Board Member
Juan M. Portuondo, SFWMD Board Member
Timothy Sargent, SFWMD Board Member
Glenn J. Waldman, SFWMD Board Member
Matt Morrison, SFWMD
Tom Teets, SFWMD
Lt. Col. Tom Greco, U.S. Army Corps of Engineers
Steve Kopecky, U.S. Army Corps of Engineers
Kimberly Taplin, U.S. Army Corps of Engineers

SEMINOLE TRIBE OF FLORIDA

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Vice-Chairman
PRISCILLA D. SAYEN
Secretary
MICHAEL D. TIGER
Treasurer

July 2, 2012

Col. Alan Dodd District Commander, Jacksonville US Army Corps of Engineers

Melissa Meeker
Executive Director
South Florida Water Management District

Dear Col. Dodd and Ms. Meeker,

On behalf of the Seminole Tribe of Florida, I am requesting a meeting to discuss the Tribe's concern regarding the impact of the developing Central Everglades Planning Project (CEPP) on our Big Cypress Reservation. We anticipate that the Big Cypress National Preserve (BCNP), with whom we share a border north of the Addition Lands, might share our concerns about reserving water necessary to support a healthy ecosystem in our mutual native areas.

While we agree that the Everglades is a unique ecosystem, as acknowledged by its World Heritage Site designation and consistent multi-decade bi-partisan national support for structural and operational water projects to restore and protect it, we want to highlight the uniqueness of the "Everglades" that compose the Tribe's Big Cypress Reservation. In the western flow way of the historic Everglades, Big Cypress incorporates a collection of varied ecosystems from saw grass prairie to hardwood hammocks that is home to many species, including some classified as threatened and endangered, and most that represent some cultural and/or religious value to the Tribe. The Tribe interprets the "health" of its people upon the health of its lands and waters, as guided by our elders. And we note that it will not be possible to restore the Everglades without rehydrating the Big Cypress Reservation and the BCNP Addition Lands.

Over the last 20 years, the Seminole Tribe has planned and implemented water infrastructure projects designed to improve the hydrology on the Big Cypress Reservation, located in Hendry and Broward Counties, north of the BCNP border, in the C-139 Basin. The hydrology and environment on the Reservation had been negatively and cumulatively impacted by the Central and South Florida Project, as well as by Bureau of Indian Affairs (BIA) supported agricultural drainage projects. The Tribe is building, in full partnership with the Corps of Engineers (Corps,) the Big Cypress Reservation Critical Project as part of the Critical Project Program authorized by WRDA 1996. While this project has and will address many of the



SEMINOLE TRIBE OF FLORIDA

problems created by earlier federally supported water control projects, minimum flows and levels needed for adequate hydration of the native areas on the Reservation and in the northern part of the BCNP, including the Addition Lands, still must be addressed. A new water reservation for the environment must be considered in excess of the Tribe's existing water rights as described in our Water Rights Compact. As the Tribe has been involved in the greater Everglades Restoration effort along with our projects focused on our lands, we have come to appreciate the need for minimum flows and levels to supply clean water to support the environmental needs of our lands. This realization has led us to this meeting request.

Over the past few months, representatives for the Tribe have been participating in numerous meetings to discuss CEPP, including some meetings with your staff focused on the issue of moving water to the western Everglades through the Big Cypress Reservation and the Addition Lands of the Big Cypress National Preserve. We look forward to getting some feedback on our proposals in the upcoming meeting now scheduled for July 13. More specifically, we seek your agencies feedback on:

- How to assure water reservations to supply environmental needs on our and federal native lands adjacent to the Big Cypress Reservation; and
- 2. How to deliver water to the Big Cypress Reservation for use by the natural system.

While CEPP is being fully vetted, we believe that consideration of the new water reservations to sustain the environment on Big Cypress and in the BCNP Addition Lands is well timed. Attached for your consideration is a draft agenda to guide this meeting. Patricia Powers on behalf of the Tribe will follow-up with your office to confirm participation in the July 13 meeting.

Thank you for your consideration.

Elami

James E Billie Chairman of the Tribal Council

Sho Na Bish,

JEB/pd



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

OCT ^ 5 2012

Executive Office

Chairman James Billie Seminole Tribe of Florida 6300 Stirling Road Hollywood, Florida 33024

Dear Chairman Billie:

This letter is in response to your July 2, 2012 letter in reference to the hydration of the native areas on the Reservation and in the northern part of Big Cypress National Preserve (BCNP). We continue to appreciate the Seminole Tribe's unique commitment to the health of the broader ecosystem and understand the "uniqueness of the 'Everglades' that compose the Tribe's Big Cypress Reservation." The July13, 2012 meeting referred to in your letter proved to be a fruitful dialogue between your staff, personnel from the Jacksonville District, U.S. Army Corps of Engineers (Corps), and representatives from the South Florida Water Management District. Such opportunities are always welcome. We believe this meeting in particular proved to be a powerful forum for identifying solutions to the challenges you noted.

The Corps remains fully committed to ecosystem restoration and over the past several years has found success in doing so through continued engagement with key partners and stakeholders. I understand your interest in seeing the Central Everglades Planning Project (CEPP) used as a planning vehicle to deliver the long-term hydrologic benefits you are seeking. However, within the broader Comprehensive Everglades Restoration Plan (CERP), the current CEPP study unfortunately cannot specifically address multiple restoration projects, to include the delivery of water to the Big Cypress Reservation as you envision. As only the first of several increments to support restoration, the ongoing CEPP study is seeking to identify a suite of projects in an unprecedented 18-month period that most effectively capitalizes on existing data, knowledge, evaluation tools, previously constructed restoration features, and lands currently available. I am optimistic that the new streamlined planning paradigm will provide restoration benefits quicker than ever. Implementing an incremental approach along with the continued gathering of critical scientific data and knowledge will certainly facilitate future studies and subsequent progress in restoration.

In addition, the discussions on July 13, 2012 resulted in several potential remedies to address the hydration concerns on the Big Cypress Reservation and in the northern part of BCNP. The first includes incorporating adaptive measures as described in the September 24, 2003 Wetland Management Plan prepared by AMS Engineering and Environmental, Incorporated which in part

states that "if, after three years of operation, the annual success criteria evaluation at any given project feature indicates deficiencies in attainment of successful enhancement/restoration of wetland resources or abatement of phosphorus discharges to off-reservation waters, the Tribe will confer with the Corps." Pursuant to the outcome of the review, the Tribe will prepare an adaptive management plan for review and approval by the Corps prior to implementing any changes in the operations of the feature. This plan should focus on Basin 1 outlets and siphon design elevations with the intent of delivering more water to native areas by, in part, minimizing the loss of water underground and to the feeder canal.

Secondly, a change to the schedule governing the S-190 water control structure may yield higher groundwater elevations within the western portion of the Big Cypress Reservation by increasing water storage in the West Feeder and North Feeder canals. This effort in particular would likely be realized through a temporary deviation to the existing regulation schedule which would be coordinated with Corps and South Florida Water Management District operations staff. It should be noted that our staff continues to explore possible alternatives within the criteria of the existing Water Control Plan (WCP) to closely meet intended outcomes.

Finally, the Corps team members are exploring the process for conducting a Watershed Study that would best identify the hydrologic conditions underlying the Big Cypress Reservation and adjacent areas. Section 203 of the Water Resources Development Act of 2000 authorizes the Secretary of the Army, in cooperation with Indian tribes and the heads of other Federal agencies, to study and determine the feasibility of carrying out projects that will substantially benefit Indian Tribes. Section 203, titled Tribal Partnership Program, also establishes cost sharing provisions, defines cooperation and consultation requirements, and authorizes appropriations. Please reference the enclosed booklet for details on this authorization and additional programs the U.S. Army Corps of Engineers have available and could possibly be a benefit to the Big Cypress Reservation.

Taken together, the above three actions would have the strategic goal of gaining a better understanding of groundwater conditions which can be used in future planning studies. In the near-term, of course, the first two actions may provide environmental benefits by themselves.

We are looking forward to a follow-on discussion of the above at your earliest convenience with your staff. Ms. Natalie Garrett, Tribal Liaison, will coordinate the upcoming meeting with

In the meantime, we will continue to work on these actions so that a future meeting can be used as a forum to finalize the details and to chart a mutually-agreeable path forward.

Sincerely,

Alan M. Dodd Colonel, U.S. Army District Commander

Enclosure:

Copies Furnished:

- Mr. Craig Tepper, Director, Water Resource Management, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024
- Dr. Paul Backhouse, Acting Tribal Historic Preservation Officer, Seminole Tribe of Florida, 34725 West Boundary Road, Clewiston, Florida 33440
- Ms. Cherise Maples, Assistant Director, Water Resource Management, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024
- Ms. Patricia Power, Vice President, Federal Relations, Bose Public Affairs Group, 700 North One Lafayette Centre, 1120 20th Street NW, Washington, DC 20036
- Mr. Stephen A. Walker, Attorney, Lewis Longman & Walker P.A., 515 North Flagler Drive, Suite 1500, West Palm Beach, Florida 33401
- Mr. Ken W. Dodge, Attorney, Lewis Longman & Walker P.A., 515 North Flagler Drive, Suite 1500, West Palm Beach, Florida 33401

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Tribal Officers: JAMES E. BILLIE Chairman

TONY SANCHEZ, JR.

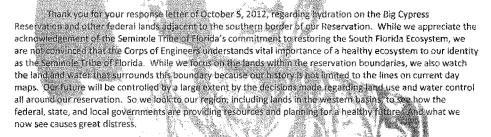
PRISCILLA D. SAYEN
Secretary

MICHAEL D. TIGER

November 7, 2012

Colonel Alan M. Dodd Jacksonville District Commander United States Army Corps of Engineers 701 San Marco Blvd. Jacksonville, Florida 32207 8175

Dear Colonel Dodd:



As you note in your letter, the Seminole Tribe has been actively engaged in the South Florida Ecosystem Restoration effort for nearly 20 years. We have supported this effort technically and politically through all of these years. More specifically, we are constructing in full partnership with the Corps, an extensive water control system on the Big Cypress Reservation. This project is important to us and to our region and we appreciate the Corps' work and federal funding. But focusing solely on the land and water within our neservation's legal boundaries is short sighted. And this has been our position for nearly two decades. We have urged over and over again through all the planning efforts, including the Restudy which is the basis for CERP, to include the western basins in the Central Everglades system in the monitoring, modeling; data gathering, design, planning, and project implementation. So please appreciate our deep disappointment to be told that waters in the western basins that impact the Central Everglades Planning Project (CEPP) are not included in the scope of CEPP because the monitoring, data gathering, and modeling have still not been done in this region, despite our repeated requests to do so for over 14 years. We applied the Corps' drive to complete the CEPP planning process in 18 months, but we remain very concerned by the long-standing inattention to this region.

Apart from the fact that we, a valued partner in Everglades Restoration by all accounts, have been effectively ignored in our repeated requests for monitoring, modeling, and planning in this region, we note that

"BUT I HAVE PROMISES TO KEEP & MILES TO GO BEFORE I SLEEP"

C.3-390



SEMINOLE TRIBE OF FLORIDA

the federal government has an obligation through its trust responsibilities to restore the northwest corner of WCA 3A, where the Seminole Tribe of Florida retains hunting and fishing rights, at a minimum. Beyond CEPP, we would like to discuss further how the Corps and its State partner intend to address the Central Everglades north and west of the redline in the current CEPP models.

As to your specific suggestions for addressing our water supply concerns, we welcome your offers. Regarding your suggestion to exercise adaptive management of Basin 1 of the critical project, we look forward to working with your engineering and wetlands regulatory staff on crafting operational changes to the outlets and siphons in order to deliver more water to the native areas south of the West Feeder Canal in the Big Cypress Seminole Indian Reservation. We assume that such work will be eligible for funding under the Operations & Maintenance provisions of the project's Project Cooperation Agreement.

Regarding the S-190 water control structure temporary deviation, we are encouraged by the option to work effectively within the existing regulation schedule to increase water storage in the West and North Feeder Canals, which will allow more water to replenish groundwater of the reservation. We would like to schedule meetings as soon as possible with the Corps and the South Florida Water Management District (District) to discuss the details and timing of the temporary deviation. In ote here that we are also concerned about the structural integrity of the S-190 water control structure and urge the Corps and the District to carefully review the soundness of the structure and take all actions necessary to make it secure.

And thank you for the information on the Tribal Partnership Program as authorized by Section 203. We will take a careful review of this program and make a decision about whether or not to apply at a later date.

Managing water resources in South Florida is a steep challenge. The only way to meet this challenge is to work together to plan a future that balances competing needs fairly, which requires a more comprehensive view of the system. For as long as the monitoring and modeling in the western basins is not addressed, the South Florida Ecosystem restoration plan is incomplete.

We look forward to continue to work with you to remedy this situation and to address the pressing needs of the Tribe to correct the hydrology surrounding our Big Cypress Reservation. I have directed my staff to arrange another meeting with the Corps through Ms. Garrett.

Thank you for your attention to this critical resource issues for the Seminole Tribe.

Sho-ha-ussi,

James E. Billie

Chairman of the Tribal Council

Jeb/Pd Cc:

Jim Shore, General Counsel, Seminole Tribe of Florida

Craig D. Tepper, Director, Environmental Resource Management Department, Seminole Tribe of Florida FILE

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C.3-391

GLADES SUGAR HOUSE

Sugar Cane Growers Cooperative of Florida

POST OFFICE BOX 666

33430-0666

BELLE GLADE, FLORIDA

March 29, 2012

Dr. Gina Padua Ralph U.S. Army Corps of Engineers Planning Division P.O. Box 4970 Jacksonville, FL 32232-0019

Re: Central Everglades Planning Project

Dear Dr. Ralph:

We have many concerns about the scoping comment responses as well as the direction the Central Everglades Planning Project (CEPP) is taking. Please accept the following additional comments on behalf of Sugar Cane Growers Cooperative of Florida regarding this initiative.

The Comprehensive Everglades Restoration Plan (CERP), consisting of some-68 components, was designed to protect and restore the remaining Everglades while meeting the water related needs of the region. This included improving the timing, flow and distribution of water while providing the level of service for flood protection and water supply as of the date of enactment of CERP, known as the Savings Clause protections. In all likelihood Congress would not have approved CERP without the broad-base stakeholder support that was derived by the commitments to meet the needs for both the built and natural environments.

We noted that the project team has modified its goals by adding "Enhance Economic Values and Social Well Being" in its goals and objectives statement at the March 26, 2012 Project Delivery Team meeting. However the sub-objectives under this goal give us concern. The presentation stated, "the formulation and evaluation of alternatives will include the objective of providing water supply as incidental to the objective of fulfilling the ecological needs of the South Florida ecosystem." And further states, "Water retained in the Lake that is not identified for the natural system may be available for water supply." These two sub-objectives clearly indicate to us that water supply needs are not being addressed on equal footing as Congress intended when approving the CERP.

While we support the Corps' desire to streamline the process and acknowledge the National Academy of Science's recommendation to evaluate groups of complementary components to

Dr. Gina Padua Ralph Central Everglades Planning Project

March 29, 2012

achieve benefits that would not be attained with the piece-by-piece approach, we are concerned that an appropriate evaluation of alternatives to flow more water through the Central Everglades will not be conducted. The CEPP cannot be undertaken in a vacuum. It must consider current and on-going Lake Okeechobee and Everglades projects in the region (including the rehabilitation of the Herbert Hoover Dike), projects anticipated to be built during the planning horizon, and it must be compatible with and complementary to whatever remedy is adopted to settle the federal litigation.

One of the objectives of the CEPP is to capture and divert water from the Lake now lost to tide to reduce harmful discharges to the Caloosahatchee and St. Lucie Estuaries. CERP envisioned that these discharges would be stored in a series of strategically located Aquifer Storage and Recovery Wells (ASR) to provide carry over storage capacity or storage in a series of deep above ground reservoirs in the Everglades Agricultural Area (EAA), Caloosahatchee Basin and the St. Lucie Basin. The plan was also dependent on improving conveyance capacity within the EAA canal network.

Subsequent to the passage of CERP, the state pledged the Everglades Conveyance and Regional Treatment (ECART) project, and the EAA- A1 Reservoir as critical components of the Long-Term Plan to meet Everglades water quality standards as mandated by the Florida Legislature in the 2003 amendments to the Everglades Forever Act (Section 373.4592(3) Florida Statutes). The Long Term Plan is periodically updated by the South Florida Water Management District (SFWMD) and submitted to the Florida Department of Environmental Protection (FDEP) for approval. The legislation mandates that SFWMD and DEP annually report to the Governor and the Florida Legislature summarizing the water conditions in the Everglades Protection Area, the status of the impacted areas, the status of the construction of the Stormwater Treatment Areas, the implementation of on-farm Best Management Practices, and actions to monitor and control exotic species. Section 373.4592(13) Florida Statutes. It was the intent of the Legislature that "implementation of the Long-Term Plan shall be integrated and consistent with the implementation of the projects and activities in the congressionally authorized components of the CERP so that unnecessary and duplicative costs will be avoided." Clearly, there was a well thought out plan, including process development and engineering components, that was mandated by the Florida Legislature for the Long-Term Plan and by the Congress for CERP.

While undertaking CEPP, the Corps must be mindful of the Savings Clause requirements in CERP—that there shall be no elimination or transfer of existing legal sources of water, existing as of December 2000, until a new source of water supply of comparable quality is available. The Savings Clause constraint should be built into the front end of the screening process for any alternative to move forward. Given the decision to use the LORS08 Lake Schedule as the future without project planning condition, and the lack of support for recognizing the ability to store more water in Lake Okeechobee as improvements are made to the Herbert Hoover Dike, we are concerned that a plan to meet the objectives of CEPP, and the requirements of the Savings Clause, will not be possible.

Dr. Gina Padua Ralph Central Everglades Planning Project

March 29, 2012

Also puzzling are the scoping comment responses regarding ASR wells as a component that will not be evaluated as part of the *first increment* of CEPP, but will be put off to be evaluated at a later date. The preliminary data regarding the effectiveness of ASR technology are promising and other than the Lake, this may be the only viable solution to store water for carry-over supply.

During the March 9, 2012 EAA component screening presentation, a matrix was presented evaluating the costs and benefits between deep and shallow storage. Both configurations will require canal conveyance improvements. Deep storage reservoirs have the potential to provide additional storage and flow capacity albeit at a higher cost. Focusing on improved utilization of the storage capacity in the Lake would seem likely to be a part of the most cost effective alternative.

We believe that NEPA requires that all reasonable alternatives be evaluated as part of the process and that evaluation must include the option of storing additional water in Lake Okeechobee. As the National Research Council said in its Second Biennial Report in 2008, "Lake Okeechobee is a critical linchpin of the South Florida Ecosystem...The challenges of water quantity and quality in the Lake have important ramifications for the entire ecosystem because the Lake supports important elements of the region's biota, and it also has the potential to serve as a major source of water storage and water supply for downstream ecosystems. This potential will become more critical if other planned and proposed sources of water do not become available." At page 186. The Corps is at that critical decision point now.

The second juggernaut in the CEPP is the water quality constraint. The without-project condition assumes that water quality standards under the Clean Water Act are being met. While this seems straightforward, it is anything but. The issue is tied up in two federal court cases under two different judges. While there are ongoing discussions and negotiations regarding this issue between state and federal parties, there currently is no agreement on what the water quality standards will be or what projects on what lands will be necessary to achieve the ultimate standard.

These issues must be resolved so that the CEPP planners know what water quality target must be met. Potentially the same set of state owned lands could be identified to meet existing water flow as an outcome to the federal litigation as well as for the new water to be delivered as part of CEPP. How this water quality dispute is resolved also has obvious financial ramifications to the South Florida Water Management District, as well as the state.

Please make available the Memorandum of Record for Decision Point 1 that was reached on January 27, 2012 and the Risk Register that will help planners evaluate potential risks associated with various assumptions during the modeling phase. In view of the accelerated beginning of the CEPP process we view these comments as a supplement to our previous submission during the formal scoping process.

Dr. Gina Padua Ralph Central Everglades Planning Project

March 29, 2012

Please reconsider your position regarding your goals and objectives in meeting the water related needs of the region, the future storage capabilities of Lake Okeechobee and the need to integrate on-going and future planned Lake Okeechobee/Everglades initiatives into the CEPP process.

We look forward to working with you to make this effort a success.

Sincerely,

Barbara J. Miedema

Vice President, Public Affairs & Communications

BJM:swd

cc: Ms. Melissa Meeker, Executive Director, SFWMD

Medle

Mr. Joe Collins, SFWMD, Chair

Mr. Kevin Powers, SFWMD, Vice Chair

Mr. Sandy Batchelor, SFWMD Board Member

Mr. Daniel DeLisi, SFWMD Board Member

Mr. James J. Moran, SFWMD Board Member

Mr. Daniel O'Keefe, SFWMD Board Member

Mr. Juan M. Portuondo, SFWMD Board Member

Mr. Timothy Sargent, SFWMD Board Member

Mr. Glenn J. Waldman, SFWMD Board Member

Mr. Matt Morrison, SFWMD

Mr. Tom Teets, SFWMD

Ms. Kimberly Taplin, USACE

Mr. Steven Kopecky, USACE



MARTIN COUNTY

BOARD OF COUNTY COMMISSIONERS

2401 S.E. MONTEREY ROAD . STUART, FL 34996

Telephone: 772.288.5421 Fax: 772.288.5432 Email: efieldin@martin.fl.us

DOUG SMITH Commissioner, District 1

ED FIELDING Commissioner, District 2

PATRICK HAYES Commissioner, District 3

SARAH HEARD Commissioner, District 4

EDWARD CIAMPI Commissioner, District 5

TARYN KRYZDA, CPM County Administrator

> STEPHEN FRY County Atlorney

Via Email

June 15, 2012

LTC Thomas M. Greco Deputy District Commander, SF US Army Corps of Engineers 1400 Centrepark Boulevard West Palm Beach, FL 33401

Matt Morrison Principal Scientist SFWMD 3301 Gun Club Road West Pam Beach, FL 33406 Kimberley A. Taplin Deputy Program Manager US Army Corps of Engineers 1400 Centrepark Boulevard West Palm Beach, FL 33401

Pam Mac'Kie Intergovernmental Representative SFWMD 3301 Gun Club Road West Palm Beach, FL 33406

Dear Col., Kim, Matt and Pam:

Your visit with us was greatly appreciated. I understand that there are financial and time constraints on the initial segment of Central Everglades Planning so present plans do not include considering the Lake releases that now go into the estuaries.

But, I am hopeful that in the future we will incorporate systems in our planning to conserve these billions of gallons of fresh water now being sent to tide. This is fresh water that can be used to rejuvenate our aquifers and rehydrate the Everglades. I hope we will design the system to flow south up to 10,000cfs, so that there truly will be a way to protect our estuaries.

In addition to having as an eventual objective a significant southern flow from the Lake, I encourage us to actually move water south every opportunity we get. Not just consider the possibility during emergencies, but make moving water south part of the regular routine, even if it is just a few cfs.

Please call on me when I can be of assistance. Many thanks for your support and strong efforts on behalf of Martin County.

Sincerely,

TELEPHONE 772-268-5400

WEB ADDRESS http://www.martin.fl.us Ed Fielding

Martin County Commissioner

District 2

EF:rz

C.3-396

Thank You Col. and Others.docx



FLORIDA WILDLIFE FEDERATION

Affiliated With National Wildlife Federation

Manley K. Fuller, III, President 2545 Blairstone Pines Drive, Tallahassee, FL 32301 Post Office Box 6870, Tallahassee, FL 32314-6870 Phone: (850) 656-7113 Fax: (850) 942-4431 website: www.fwfonline.org

June 4, 2013

Mr. Daniel O'Keefe Governing Board Chairman South Florida Water Management District Post Office Box 24680 West Palm Beach, FL 33416-4680

Dear Chairman O'Keefe:

The Florida Wildlife Federation respectfully requests the South Florida Water Management District Governing Board to re-affirm the District's role as local sponsor of the Central Everglades Planning Project (CEPP), which is currently being developed by the U.S. Army Corps of Engineers with District support.

The CEPP has proposed an array of projects in its Alternative 4-R that, together with the District's and Governor Scott's Everglades Water Strategies program, will move significant amounts of fresh water into Shark River Slough, the core of Everglades National Park. With these projects and the already commenced Picayune Strand restoration projects on the west and the C-111 spreader canal moving water into Taylor Slough on the east, the state and federal governments will secure the future of the park and revitalize a large portion of the historic "River of Grass" through Water Conservation Areas 3 A and B.

Specifically, we are asking SFWMD Governing Board to take such formal action as is necessary to permit release of the ACOE's Draft Project Implementation Report (PIR) for the proposed Tentatively Selected Plan, Alt.4-R. Release of the PIR will start compliance reviews under the National Environmental Policy Act and formal public comment, as modeling and refinements continue to address remaining concerns. Taking action now provides sufficient time to ensure that a Chief's Report can be submitted to Congress by December 2013, making CEPP projects eligible for Congressional authorization under the Senate-passed Water Resource Development Act (WRDA). It is not possible to predict when the House will take up a WRDA bill. It would be politically foolish, however, for us in Florida not to make every attempt to meet the Senate's conditions and deadline for the next WRDA bill.

Urging Congressional authorization for CEPP projects is not to say that other projects such as the Caloosahatchee and St. Lucie reservoirs, Broward Water Preserves, Biscayne Bay

Coastal Wetlands should be sidelined. All of us are aware of the enormity of the restoration laid out in the Comprehensive Everglades Restoration Plan, of which CEPP is a component. It is that enormity and its potential rewards that make "Everglades Restoration" worth implementing.

Florida Wildlife Federation's message is that we are still in "a process" and, at this point in that process, all of us should push forward to obtain Congressional authorization for CEPP projects. By statute and court orders, the District and its taxpayers have incurred an obligation to meet water quality standards; formally agreeing to the role of "local sponsor" for CEPP does not add to that obligation. Long term, implementing the projects proposed may make achieving those standards easier. If the Governing Board feels it needs an "escape clause," the process builds one in: the Project Construction Agreement. Prepared after design, the PCA spells out responsibilities for the costs of construction, operations and maintenance. You are NOT now being asked to sign a PCA.

The Comprehensive Everglades Restoration Plan was adopted unanimously by the Florida Legislature in 2000, which also designated the South Florida Water Management District to be the state's "local sponsor." The plan also was adopted by Congress, winning every vote save that of one senator. At that time, it was anticipated that implementation would take thirty years to complete. As we approach the half-way point, the Federation urges all to continue moving forward to full implementation.

Sincerely,

Manley K. Fuller President

Manley Fuller

cc: Governor Rick Scott Col. Alan Dodd Shannon Estenoz



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS

P.O. BOX 4970 JACKSONVILLE. FLORIDA 32232-0019

ATTENTION OF

0 P FEB 2012

Planning and Policy Division Environmental Branch

Honorable Colley Billie Chairman, Miccosukee Tribe of Indians of Florida Post Office Box 440021, Tamiami Station Miami, Florida 33144

Dear Chairman Billie:

The Jacksonville District, U.S. Army Corps of Engineers (Corps) is beginning preparation of a National Environmental Policy Act assessment for the Central Everglades Planning Project (CEPP). The goal of CEPP is to develop an integrated, comprehensive technical plan for the first increment of project features to be recommended for authorization for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem. The Corps respectfully requests to meet with you and your staff routinely throughout the planning process to ensure any issues or concerns the Tribe may have are identified and we receive your input regarding development of this plan. The Corps is requesting a standing bimonthly (every other month) meeting with you and/or designated staff to discuss the Tribe's views on the CEPP. This bimonthly meeting request is in addition to tribal staff's participation in the regular Project Delivery Team meetings. The rationale behind this request is to provide a standing opportunity for open dialogue and government-to-government consultation throughout the CEPP planning process.

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We look forward to the opportunity to meet with you. Please contact Ms. Kim Taplin at 561-801-0285 at your earliest convenience to schedule these bimonthly meetings.

Sincerely,

Alfred A. Partano, Jr. Colonel, U.S. Army District Commander

Enclosure

Copy Furnished:

Bernie Roman, Miccosukee Tribal Attorney, PO Box 440021 Tamiami Station, Miami, Florida 33144

Fred Dayhoff, Section 106 and NAGPRA Consultant, PO Box 440021 Tamiami Station, Miami, Florida 33144

James Erskine, Water Resources Director, PO Box 440021 Tamiami Station, Miami, Florida 33144

Rory Feeney, Miccosukee Wildlife Director, PO Box 440021 Tamiami Station, Miami, Florida 33144

Terry Rice, Colonel (Ret'd), PhD, PE, Miccosukee Everglades Consultant, 6526 S Kanner Highway, PMB 316, Stuart, Florida 34997

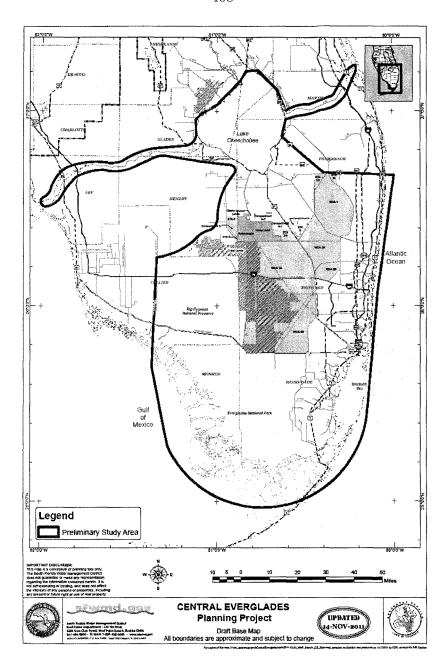


Figure 1. Central Everglades Planning Project Preliminary Study Area.



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

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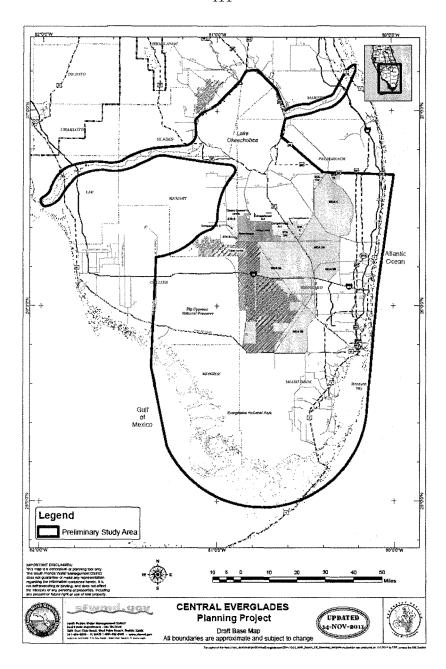
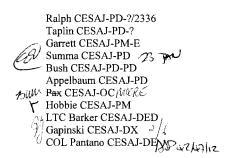


Figure 1. Central Everglades Planning Project Preliminary Study Area.

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L:\ GROUP\PDES\Ralph\Central Everglades\CES Consultation Letter Request Miccosukee Tribe January 2012

-4-

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Taplin CESAJ-PD-?

Garrett CESAJ-PD-P

Summa CESAJ-PD

Bush CESAJ-PD

Appelbaum CESAJ-PD

Pax CESAJ-OC

Hobbie CESAJ-PM

LTC Barker CESAJ-DED

Gapinski CESAJ-DX

COL Pantano CESAJ-DE

L:\ GROUP\PDES\Ralph\Central Everglades\CES Consultation Letter Request Miccosukee Tribe January 2012

Ralph, Gina P SAJ

From:

Taplin, Kimberley A SAJ

Sent:

Wednesday, January 18, 2012 9:18 AM

To:

Ralph, Gina P SAJ

Subject:

RE: Responses to Marshall Jones' Questions (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Thanks Gina. I am good with your current letters requesting standing meetings. Please feel

free to start routing...thanks for all you do.

Very Respectfully, Kim T.

Kimberley Taplin, P.E. US Army Corps of Engineers 1400 Centrepark Blvd, Suite 750 West Palm Beach, FL 33401 (561) 801-0285

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From: Ralph, Gina P SAJ

Sent: Wednesday, January 18, 2012 6:14 AM

To: Taplin, Kimberley A SAJ; Auvenshine, Stacie SAJ; Thomas, Cynthia SAJ; Vitek, Kimberly A

SAJ

Cc: Garrett, Natalie S SAJ

Subject: RE: Responses to Marshall Jones' Questions (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Please find the requested information attached.

Thank you,

Gina

Gina Paduano Ralph, Ph.D.

Planning Division, Environmental Branch

US Army Corps of Engineers

P.O. Box 4970

Jacksonville, Florida 32232-0019

(904) 232-2336

Gina.P.Ralph@usace.army.mil

----Original Message----

From: Taplin, Kimberley A SAJ

Sent: Wednesday, January 18, 2012 12:52 AM

To: Ralph, Gina P SAJ; Auvenshine, Stacie SAJ; Thomas, Cynthia SAJ; Vitek, Kimberly A SAJ

Cc: Garrett, Natalie S SAJ

Subject: FW: Responses to Marshall Jones' Questions (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Ralph, Gina P SAJ

From:

Garrett, Natalie S SAJ

Sent:

Wednesday, January 18, 2012 4:01 PM

To: Cc: Taplin, Kimberley A SAJ

Ralph, Gina P SAJ; Thomas, Cynthia SAJ

Subject:

RE: CEPP Government to Government Bimonthly Meeting Request Letter (UNCLASSIFIED)

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Thank you,

Natalie

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Cc: Ralph, Gina P SAJ; Thomas, Cynthia SAJ

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Importance: High

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Importance: High

Classification: UNCLASSIFIED

Caveats: NONE

Good Afternoon,

C 3-408



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

● FEB 2012

REPLY TO ATTENTION O

Planning and Policy Division Environmental Branch

Honorable James Billie Chairman, Seminole Tribe of Florida 6300 Stirling Boulevard Hollywood, Florida 33024

Dear Chairman Billie:

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Sincerely,

Alfred A. Pantano, Jr Colonel, U.S. Army District Commander

Enclosure

Copy Furnished:

Craig Tepper, Director of Water Resource Management, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Jim Shore, General Counsel, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Willard Steele, Seminole Tribe of Florida, Tribal Historic Preservation Officer, 30290

Josie Billie Highway, PMP 1004, Clewiston, Florida 33440

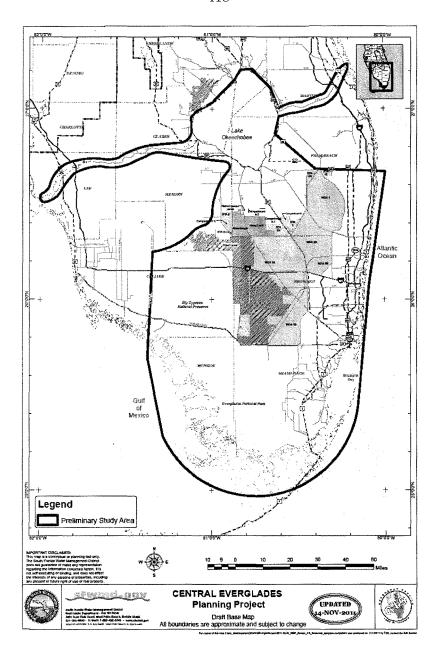


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DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

REPLY TO

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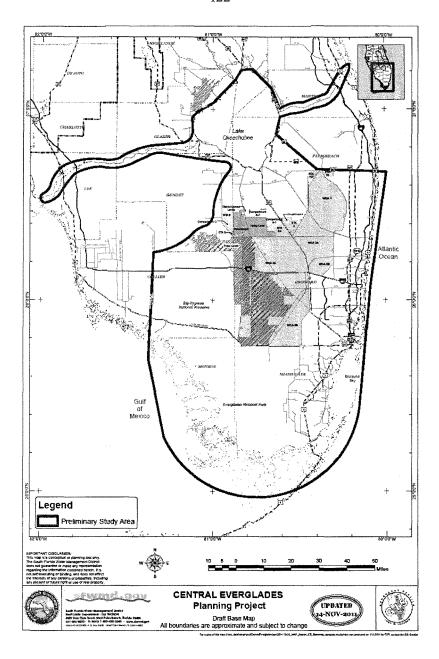


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-4-

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Bush CESAJ-PD-PD
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HObbie CESAJ-DE
COL Pantano CESAJ-DE
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L:\GROUP\PDES\Ralph\Central Everglades\CES Consultation Letter Request Seminole Tribe January 2012

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(904) 232-2336
Gina.P.Ralph@usace.army.mil
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Importance: High

Classification: UNCLASSIFIED

Caveats: NONE

Good Afternoon,

C.3.3 Draft Project Implementation Report (PIR) and Environmental Impact Statement (EIS)

C.3.3.1 Draft PIR/EIS Notice of Availability

The Notice of Availability (NOA) of the Central Everglades Planning Project Draft Project Implementation Report and Environmental Impact Statement was published in the Federal Register (FR Volume 78, Number 169) August 30, 2013 and mailed to interested stakeholders to begin the 64 day review period. The Draft EIS was filed in accordance with ER-FRL-8994-7, Amended Environmental Impact Statement Filing System Guidance for Implementing 40 CFR 1S06.9 and 1S06.10 of the Council on Environmental Quality's Regulations Implementing the National Environmental Policy Act and made available for public and agency review. Five NEPA Draft PIR/EIS Public Meetings were held September 16, 2013 in Plantation, Florida; September 17, 2013 in Fort Myers, FL; September 18, 2013 in West Palm Beach, FL; September 19, 2013 in Stuart, FL and September 25, 2013 in Homestead, FL. The draft EIS was published on the following websites:

http://www.evergladesplan.org/pm/projects/proj 51 cepp.aspx

and



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

Planning and Policy Division Environmental Branch

To Whom It May Concern:

Pursuant to the National Environmental Policy Act (NEPA) and the U.S. Army Corps of Engineers (Corps) Regulation (33 CFR 230.11), this letter constitutes the Notice of Availability of the Central Everglades Planning Project Draft Project Implementation Report and Environmental Impact Statement (PIR/EIS). The project is located in south Florida, in St. Lucie, Martin, Okeechobee, Glades, Hendry, Palm Beach, Broward, Miami-Dade, Monroe, Collier, Lee, and Charlotte Counties.

The Draft PIR/EIS is available for your review on www.evergladesplan.org and the Corps' Environmental planning website, under multiple counties:

http://www.evergladesplan.org/pm/projects/proj 51 cepp.aspx

http://www.saj.usace.army.mil/About/DivisionsOffices/Planning/EnvironmentalBranch/EnvironmentalDocuments.aspx#Multiple_Counties

A printed copy of the report is also available at the following libraries:

	reprinted copy of the report is also available at the removing libraries.	
	OKEECHOBEE COUNTY PUBLIC LIBRARY	MAIN LIBRARY
	206 S.W. 16TH STREET	100 S. ANDREWS AVENUE,
	OKEECHOBEE, FLORIDA 34974	FORT LAUDERDALE, FL 33301
	MAIN LIBRARY	MAIN LIBRARY
	101 W FLAGLER ST.	3650 SUMMIT BOULEVARD
	MIAMI, FL 33130	WEST PALM BEACH, FL 33406
	BLAKE LIBRAR Y	
	2351 SE MONTEREY RD	
-	STUART, FL 34996	

Any comments you may have must be submitted in writing to the letterhead address by October 13, 2013. Questions concerning the project can be submitted to Dr. Gretchen Ehlinger at the letterhead address or at CEPPcomments@usace.army.mil. Dr. Ehlinger may also be reached by telephone at 904-232-1682.

Sincerely.

Eric P. Summa)

Chief, Environmental Branch



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION O

Planning and Policy Division Environmental Branch

To Whom It May Concern:

Pursuant to the National Environmental Policy Act and the U.S. Army Corps of Engineers Regulation (33 CFR 230.11), this letter constitutes the Notice of Availability of the Central Everglades Planning Project Draft Project Implementation Report and Environmental Impact Statement. The project is located in St. Lucie, Martin, Okeechobee, Glades, Hendry, Palm Beach, Broward, Miami-Dade, Monroe, Collier, Lee, and Charlotte Counties, FL.

Any comments you may have must be submitted in writing to the letterhead address by October 13, 2013. Questions concerning this project can be submitted to Dr. Gretchen Ehlinger at Gretchen.S.Ehlinger@usace.army.mil or by telephone at 904-232-1682.

Sincerely.

Eric P. Summa

Chief, Environmental Branch

Enclosure



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO

Planning and Policy Division Environmental Branch

Dear Librarian:

Enclosed is a copy of the Central Everglades Planning Project Draft Project Implementation Report and Environmental Impact Statement. The project is located in south Florida in St. Lucie, Martin, Okeechobee, Glades, Hendry, Palm Beach, Broward, Miami-Dade, Monroe, Collier, Lee, and Charlotte Counties.

This Draft Project Implementation Report and Environmental Impact Statement is being provided for public review pursuant to the National Environmental Policy Act. We request that you make the copy available for public viewing in the reference section of your library for a period of 45 days (August 30 – October 13, 2013), after which it may be disposed.

Thank you for your assistance in this matter. If you have any questions or need further information, please contact Dr. Gretchen Ehlinger at 904-232-1682.

Sincerely,

Eric P. Summa

Chief, Environmental Branch

Enclosure



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS

P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

Planning and Policy Division Environmental Branch

Ms. Lauren P. Milligan Florida Department of Environmental Protection State Clearinghouse 3900 Commonwealth Boulevard, MS 47 Tallahassee, Florida 32399-3000

Dear Ms. Milligan:

Pursuant to the National Environmental Policy Act, enclosed for State agency review and comment are 17 CDs of the Central Everglades Planning Project Draft Project Implementation Report (PIR) and Environmental Impact Statement (EIS). The project is located in south Florida, in St. Lucie, Martin, Okeechobee, Glades, Hendry, Palm Beach, Broward, Miami-Dade, Monroe, Collier, Lee, and Charlotte Counties.

Any comments you may have on the Draft PIR/EIS must be submitted in writing to the letterhead address by October 13, 2013. Any questions concerning the Draft PIR/EIS or requests for additional copies of the report should be directed to Dr. Gretchen Ehlinger at 904-232-1682, or e-mail at: Gretchen.S.Ehlinger@usace.army.mil.

Sincerely,

Eric P. Summa

Chief, Environmental Branch

Enclosures

Dated: August 26, 2013. Nathaniel J. Davis, Sr., Deputy Secretary.

[FR Doc. 2013-21197 Filed 8-29-13; 8:45 am]
BILLING CODE 6717-01-P

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Project No. 1256–031—Nebraska Loup River Hydroelectric Project]

Loup River Public Power District; Notice of Proposed Restricted Service List for a Programmatic Agreement for Managing Properties Included in or Eligible for Inclusion in the National Register of Historic Places

Rule 2010 of the Federal Energy Regulatory Commission's (Commission's Rules of Practice and Procedure¹ provides that, to eliminate unnecessary expense or improve administrative efficiency, the Secretary may establish a restricted service list for a particular phase or issue in a proceeding. The restricted service list should contain the names of persons on the service list who, in the judgment of the decisional authority establishing the list, are active participants with respect to the phase or issue in the proceeding for which the list is established.

The Commission staff is consulting with the Nebraska State Historical Society (Nebraska SHPO) and the Advisory Council on Historic Preservation (Advisory Council) pursuant to the Advisory Council's regulations, 36 CFR part 800, implementing section 106 of the National Historic Preservation Act, as amended, (16 U.S.C. 470f), to prepare a Programmatic Agreement for managing properties included in, or eligible for inclusion in, the National Register of Historic Places that could be affected by issuance of a new license for the Loup River Hydroelectric Project No. 1256.

The programmatic agreement, when executed by the Commission and the Nebraska SHPO, would satisfy the Commission's section 106 responsibilities for all individual undertakings carried out in accordance with the license until the license expires or is terminated (36 CFR 800.13[e]). The Commission's responsibilities pursuant to section 106 for the project would be fulfilled through the Programmatic Agreement, which the Commission staff proposes to draft in consultation with certain parties listed below. The executed Programmatic Agreement

would be incorporated into any Order issuing a license.

Loup River Public Power District, as applicant for the Loup River Hydroelectric Project, the Omaha Tribe of Nebraska, the Pawnee Nation of Oklahoma, and the Santee Sioux Tribe of Nebraska have expressed an interest in this proceeding and are invited to participate in consultations to develop the Programmatic Agreement. For purposes of commenting on the programmatic agreement, we propose to restrict the service list for Project No. 1256 as follows:

John Eddins or Representative, Advisory Council on Historic Preservation, The Old Post Office Building, Suite 803, 1100 Pennsylvania Avenue NW., Washington, DC 20004

L. Rohert Puschendorf or Representative, State Historic Preservation Office, Nebraska State Historical Society, 1500 R Street, P.O. Box 82554, Lincoln, NE 68501–2554

Neal Suess or Representative, Loup River Public Power District, P.O. Box 988, 2404 15th Street, Columbus, Nebraska 68602

Rodney Morris, Tribal Chairman, Omaha Tribe of Nebraska, 100 Main St., P.O. Box 368, Macy, NE 68039 Marshall Gover, President, Pawnee Nation of Oklahoma, P.O. Box 470, 881 Little Dee Dr., Pawnee, OK 74058 Roger Trndell, Tribal Chairman, Santee Sioux Nation, 108 Spirit Lake Ave. West, Niobrara, NE 68760–7219

Any person on the official service list for the above-captioned proceeding may request inclusion on the restricted service list, or may request that a restricted service list not be established, by filing a motion to that effect within 15 days of this notice date. In a request for inclusion, please identify the reason(s) why there is an interest to be included. Also please identify any concerns about historic properties, including Traditional Cultural Properties. If historic properties are to be identified within the motion, please use a separate page, and label it NON-PUBLIC Information.

The Commission strongly encourages electronic filing, Please file motions using the Commission's eFiling system at http://www.ferc.gov/docs-filing/efiling.asp. For assistance, please contact FERC Online Support at FERCOnlineSupport@ferc.gov, (866) 208–3676 (toll free), or (202) 502–8659 (TTY). In lieu of electronic filing, please send a paper copy to: Secretary, Federal Energy Regulatory Commission, 888 First Street NE., Washington, DC 20426. The first page of any filing should include docket number P–1256–031.

If no such motions are filed, the restricted service list will be effective at the end of the 15 day period. Otherwise, a further notice will be issued ruling on any motion or motions within the 15-day period.

Dated: August 23, 2013. Kimberly D. Bose,

Secretary.

(FR Doc. 2013-21199 Filed 8-29-13; 8:45 am)
BILLING CODE 8717-01-P

ENVIRONMENTAL PROTECTION AGENCY

[ER-FRL-9010-8]

Environmental Impacts Statements; Notice of Availability

Responsible Agency: Office of Federal Activities, General Information (202) 564-7146 or http://www.epa.gov/ compliance/nepa/

Weekly receipt of Environmental Impact Statements Filed 08/19/2013 through 08/23/2013

Pursuant to 40 CFR 1506.9.

Notice

Section 309(a) of the Clean Air Act requires that EPA make public its comments on EISs issued by other Federal agencies. EPA's comment letters on EISs are available at: http://www.epa.gov/compliance/nepa/eisdata.html

EIS No. 20130250, Draft EIS, USACE, FL, Central Everglades Planning Project, Comment Period Ends: 10/15/ 2013, Contact: Gretchen Ehlinger 904 232–1682.

EIS No. 20130251, Final EIS, USFS, MN, BWCAW Non-native Invasive Plant Management Project, Review Period Ends: 10/15/2013, Contact: Jack Greenlee 218–229–8817.

ElS No. 20130252, Final ElS, USN, CA, Hawaii-Southern California Training and Testing, Review Period Ends: 09/ 30/2013, Contact: Cory Scott 808– 472–1420.

ElS No. 20130253, Final ElS, USN, 00, Atlantic Fleet Training and Testing, Review Period Ends: 09/30/2013, Contact: Lesley Dobbins 757–322– 4645.

EIS No. 20130254, Draft EIS, USFS, UT, Smiths Fork Vegetation Restoration Project, Comment Period Ends: 10/15/ 2013, Contact: Pete Gomben 801–999– 2182.

EIS No. 20130255, Draft EIS, NOAA, 00, Amendment 7 to the 2006 Consolidated Atlantic Highly Migratory Species (HMS) Fishery Management Plan (FMP), Comment

¹¹⁸ CFR 385.2010.

Period Ends: 10/23/2013, Contact: Thomas A Warren 978–281–9260.

Amended Notices

EIS No. 20130087, Draft EIS, BLM, NM, TriCounty Resource Management Plan, Comment Period Ends: 09/12/ 2013, Contact: Jennifer Montoya 575– 525–4316.

Revision to FR Notice Puhlished 04/ 12/2013; Extending Comment Period from 07/11/2013 to 09/12/2013.

Dated: August 27, 2013.

Cliff Rader.

Director, NEPA Compliance Division, Office of Federal Activities.

[FR Doc. 2013–21276 Filed 8–29–13; 8:45 am] BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY

[EPA-HQ-OA-2013-0124]

Good Neighbor Environmental Board; Notification of Public Advisory Committee Teleconference

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of public advisory committee teleconference.

SUMMARY: Pursuant to the Federal Advisory Committee Act, Public Law 92–463, notice is hereby given that the Good Neighbor Environmental Board (GNEB) will hold a public

teleconference on Tuesday, September 24, 2013. The meeting will take place from 12 p.m. to 4 p.m. Eastern Standard Time. The meeting is open to the public. For further information regarding the teleconference and hackground materials, please contact Mark Joyce at the number listed below.

DATES: Tuesday, September 24, 2013. The meeting will take place from 12 p.m. to 4 p.m. Eastern Standard Time. SUPPLEMENTARY INFORMATION:

Background: GNEB is a federal advisory committee chartered under the Federal Advisory Committee Act, Public Law 92–463. GNEB provides advice and recommendations to the President and Congress on environmental and infrastructure issues along the U.S. border with Mexico.

Purpose of Meeting: The purpose of this teleconference is to discuss the Good Neighbor Environmental Board's Sixteenth Report and preliminary advice letter. The report and advice letter will focus on ecological restoration in the U.S.-Mexico border region.

General Information: The agenda and meeting materials will be available at

http://www.regulations.gov under Docket ID: EPA-HQ-OA-2013-0124. General information about GNEB can be found on its Web site at www.epa.gov/ ofacmo/gneb.

If you wish to make oral comments or submit written comments to the Board, please contact Mark Joyce at least five days prior to the meeting. Written comments should be submitted at http://www.regulations.gov under Docket ID: EPA—HO—OA—2013—0124.

Meeting Access: For information on access or services for individuals with disabilities, please contact Mark Joyce at (202) 564—2130 or email at joyce.mark@epa.gov. To request accommodation of a disability, please contact Mark Joyce at least 10 days prior to the meeting to give EPA as much time as possible to process your request.

Dated: August 21, 2013.

Mark Joyce,

Acting Designated Federal Officer.
[FR Doc. 2013–21288 Filed 8–29–13; 8:45 am]
BILLING CODE 6550–50–P

EXPORT-IMPORT BANK

Notice of Meeting of Advisory Committee

ACTION: Notice of Open Meeting of the Advisory Committee of the Export-Import Bank of the United States (Ex-Im Bank).

TIME AND PLACE: Wednesday, September 18, 2013 from 11:00 a.m. to 2:30 p.m. The meeting will be held at the Export-Import Bank in Room 326, 811 Vermont Avenue NW., Washington, DC 20571. SUMMARY: The Advisory Committee was established November 30, 1983, to advise the Export-Import Bank on its programs and to provide comments for inclusion in the reports of the Export-Import Bank of the United States to Congress.

Agenda: Agenda items include briefings and discussions on the following topics: Ex-Im Bank business update and subcommittee reports.

Public Participation: The meeting will be open to public participation, and the last 10 minutes will be set aside for oral questions or comments. Members of the public may also file written statement(s) before or after the meeting. If members of the public wish to attend, they must contact Niki Shepperd via email at niki.shepperd@exim.gov by 5 p.m. on September 17, 2013. If any person wishes auxiliary aids (such as a sign language interpreter) or other special accommodations, please contact, by September 16, 2013, Niki Shepperd.

FOR FURTHER INFORMATION CONTACT: For further information, contact Niki Shepperd, 811 Vermont Ave. NW., Wasbington, DC 20571, (202) 565–3202 or TDD (202) 565–3377 or iki.shepperd@exim.gov.

Cristopolis A. Dieguez,

Program Specialist, Office of General Counsel. [FR Doc. 2013–21163 Filed 8–29–13; 8:45 am] BILLING CODE 6690–01–P

FEDERAL COMMUNICATIONS COMMISSION

Information Collection(s) Being Submitted for Review and Approval to the Office of Management and Budget (OMB)

AGENCY: Federal Communications Commission.

ACTION: Notice; request for comments.

SUMMARY: As part of its continuing effort to reduce paperwork burden and as required by the Paperwork Reduction Act (PRA) of 1995 (44 U.S.C. 3502-3520), the Federal Communications Commission invites the general public and other Federal agencies to take this opportunity to comment on the following information collection(s). Comments are requested concerning: Whether the proposed collection of information is necessary for the proper performance of the functions of the Commission, including whether the information shall have practical utility; the accuracy of the Commission's burden estimates; ways to enhance the quality, utility, and clarity of the information collected; ways to minimize the burden of the collection of information on the respondents, including the use of automated collection techniques or other forms of information technology; and ways to further reduce the information collection burden on small business concerns with fewer than 25 employees.

The FCC may not conduct or sponsor a collection of information unless it displays a currently valid OMB control number. No person shall be subject to any penalty for failing to comply with a collection of information subject to the Paperwork Reduction Act (PRA) that does not display a valid OMB control number.

DATES: Written Paperwork Reduction Act (PRA) comments should be submitted on or before September 30, 2013. If you anticipate that you will be submitting PRA comments, but find it difficult to do so within the period of time allowed by this notice, you should

C.3.3.2 Statement Recipients

The November 23, 2011 scoping letter was mailed to the parties listed in **Table C.3.3-1**. The August 27, 2013 Notice of Availability (NOA) of the Draft EIS letter was mailed to the same list of stakeholders. Re cipients include Federal, State, and local agencies, affected Indian Tribes, and other interested private organizations and individuals. A complete mailing list is available upon request.

Table C.3.3-1. List of Recipients

	Recipients
	Federal Emergency Management Administration
	Federal Maritime Commission
	National Center for Environmental Health
	U.S. Department of Agriculture
	(Natural Resources Conservation Service and U.S. Forest Service)
	U. S. Department of Commerce
	(National Oceanic and Atmospheric Administration, Florida Keys National
	Marine Sanctuary, and National Marine Fisheries Service)
	U.S. Department of Homeland Security
	(U.S. Coast Guard 7 th District)
Federal	U.S. Department of Housing and Urban Development
reuerai	U.S. Department of the Interior
	(Bureau of Indian Affairs, National Park Service [Big Cypress National
	Preserve, Biscayne National Park, Everglades National Park], U.S. Fish and
	Wildlife Service, U.S. Geological Survey, Office of Environmental Policy and
	Compliance)
	U.S. Department of Justice
	U.S. Environmental Protection Agency
	U.s. Department of Transportation
	(Federal Highway Administration)
	U.S. Congressman – Florida Districts 17, 18, 19, 20, 21, 22, 23, 24, 25
	U.S. Senators – Florida
	Florida Department of Agriculture and Consumer Services
	(Office of Agricultural Water Policy)
	Florida Department of Environmental Protection
State	Florida Department of Transportation
	Florida Fish and Wildlife Conservation Commission
	Florida Keys Aqueduct Authority
	Florida Governor's Office
	Florida House Representatives - Districts 78, 82, 83, 84, 85, 87, 88, 89, 90,
	91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107,
	108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120
	Florida State Clearinghouse
	Florida State Senators - Districts 25, 27, 28, 29, 30, 32, 33, 34, 35, 36, 38,
	39, 40
	South Dade Soil and Water Conservation District
	South Dade Government Center

	Recipients
	South Florida Regional Planning Council
	Southwest Florida Regional Planning Council
	South Florida Water Management District
	State Historic Preservation Office
	University of Florida Cooperative Extension Office, Homestead, Florida
	Miccosukee Tribe of Indians of Florida
	Mucogee (Creek) Nation of Oklahoma
Tribe	Poarch Band of Creek Indians
	Seminole Nation of Oklahoma
	Seminole Tribe of Florida
	Broward County Biological Resources Division
	Broward County Environmental Protection and Growth Management
	Lee County Public Utilities
	Martin County
	Miami-Dade County Department of Environmental Resources Management
County Agencies	Miami-Dade County Department of Planning and Zoning
, 0	Miami-Dade County Park & Recreation
	Miami-Dade County Water & Sewer
	Miami-Dade County Water Resources
	Monroe County Growth Management Department
	Palm Beach County Water Resources
	Broward County Board of County Commissioners
	Miami-Dade County Board of County Commissioners
County Government	Monroe County Board of Commissioners
	Palm Beach County Board of Commissioners
	City of Delray Beach
	City of Florida City
	City of Fort Lauderdale
	City of Hollywood
Municipalities	City of Homestead
	City of Lighthouse Point
	City of Pembroke Pines
	City of Sanibel
	City of Miami
	Lake Worth Drainage District
	South Broward Drainage District
	Town of Medley
	Town of Southwest Ranches
	Collier County Public Library, Everglades City Branch
	Broward County Public Library, Ft. Lauderdale Branch
Libraries	Miami-Dade Public Library, Homestead Branch
	Miami-Dade Public Library, Main Branch
	Northwest Regional Library, Coral Springs
Groups and	100 Friends of Florida
Organizations	Airboat Association of Florida
	<u> </u>

	Recipients
	Broward 298s
	Broward County Airboat Association
	Charleston Museum
	Clean Water Action
	Coopertown Airboat
	Dade County Farm Bureau
	Defenders of Wildlife
	Duke University
	Environmental and Land Use Law Center
	Everglades Coordination Council
	Everglades Foundation
	Everglades Protection Society
	Florida Atlantic University
	Florida Gulf Coast University
	Florida Biodiversity Project
	Florida International University
	Florida Keys Fishing Guides Association
	Florida Limerock and Aggregate Institute
	Florida Wildlife Federation
	Friends of the Everglades
	Homestead/Florida City Chamber of Commerce
	Las Palmas Homeowners Association
	Naples Pathways Coalition,
	National Parks Conservation Association
	Natural Resources Defense Council
	Northwestern University
	Nova University, Environmental and Land Use Law Center
	The Nature Conservancy
	Reef Relief
	Rutgers University
	Sierra Club
	Sierra Club, Miami Group
	South Florida Ecosystem Restoration Task Force
	The Conservancy
	Trail Glades Bassmasters of Miami
	Tropical Audubon Society
	Trust for Public Land
	University of Chicago, Field Museum of Natural History
	University of Florida
	University of Miami, School of Law
	University of West Florida
	Wildlife Foundation of Florida
	World Wildlife Fund of Florida
	Alednam Development
Businesses	Applied Environmental Services
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Recipients
Coopertown Airboat
Florida Power and Light
Everglades Research Group, Inc
Everglades Safari Park
Florida Citrus Mutual
Florida Rock Industries
Gator Park
Greenacres Farm
Lehtinen, Vargas and Riedi
Lewis, Longman and Walker
Lincoln Financial
Lone Star Environmental Studies
Mac Vicar, Frederico and Lamb
Miami Engineering Company
Milian-Swain and Associates
Palm Beach Post
Pentavista Corporation
Radio One, Pepper Hamilton
Rinkers Materials Corporation
Salem Communications Corporation
South Dade News Leader
Tarmac America
White Rock Quarries
WVCG Radio

C.3.3.3 Draft PIR/EIS Comment Response Matrices

Table C.3.3-2. CEPP NEPA Draft PIR/EIS Formal Letter Comment Response Matrix.

Table C.3.3-2.	Table C.3.3-2. CEPP NEPA Draft PIR/EIS Formal Letter Comment Response Matrix	ıt Response Matrix.
COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
FEDERAL		
CONGRESS OF T	CONGRESS OF THE UNITED STATES	
Congress-1	Thank you for your continued dedication to the restoration of America's Everglades. We are writing to express our support for the approval of the Central Everglades Planning Project (CEPP).	Thank you for your comment.
Congress-2	We are hopeful that the U.S. Army Corps of Figureers will complete the final planning stages as soon as possible to provide an opportunity to advance this and the interdependent projects in a WRDA bill. There are already four Everglades projects with completed Chief's Reports. Ensuring that these projects are all authorized in the upcoming WRDA bill will ensure restoration can progress without further delay.	Thank you for your comment. Staff will work as expeditiously as possible to complete the Chief of Engineer's Report for submittal to the Assistant Secretary of the Army for Civil Works and Office of Management and Budget (OMB) for administrative review. This will occur upon completion of the State and agency review of the Final Central Everglades Planning Project (EPP) Final Integrated Project Implementation Report (PIR) and Environmental Impact Statement (EIS).
Congress-3	CEPP will increase flow to the south by 217,000 acre feet (700 billion gallons) of water, thus reducing harmful discharges to the St. Lucie and Caloosahatchee estuaries, while still maintaining needed dry season flows. By delivering more water to the Southern Everglades, critical habitat will be improved, leading to a better functioning ecceystem that will benefit Florida's economy.	Thank you for your comment. Please note the following correction: the Recommended Plan provides an average of approximately 2.10,000 acre-feet per year of additional freshwater flow.
Congress-4	As one of the Corps of Engineers' pilot projects for streamlined planning, the project formulation timeline was reduced from five to seven years to two years. That is something to be celebrated. Completing the final stages of project planning, however, is essential to reap the benefits of this reform.	Thank you for your comment. Please see response to comment Congress-2 above.
UNITED STATES	UNITED STATES DEPARTMENT OF THE INTERIOR (DOI)	
001-1	The Department of the Interior (Department) supports the Recommended Plan as contained in the Draft PIRIEIS.	Thank you for your comment.

April 2014

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
DOI-2	The Department, like the Florida Department of	Thank you for your comment regarding the Civil Works Program - Pilot Study
	Environmental Protection (FDEP), would like to see	Implementation. This study process continues to use quality planning practices and is
	the streamlining of both the timeframe and	intended to increase public participation, broaden public input and shorten the
	process for Corps feasibility studies utilized in this	timeframe for completion of a pre-authorization (planning) study.
	pilot program become a national practice for Corps	
	feasibility studies,	
DOF-3	The well-balanced Alternative 4R2 recommended	Thank you for your comment regarding the Civil Works Program - Pilot Study
	plan was made possible by the innovative	Implementation. This study process continues to use quality planning practices and is
	development and application of many cutting edge	intended to increase public participation, broaden public input and shorten the
	assessment and modeling tools, and the adoption	timeframe for completion of a pre-authorization (planning) study.
	of a highly inclusive planning process combining	
	inter-agency project teams with regular	
	stakeholder workshops, The Department	
	commends the Corps and South Florida Water	
	Management District (SFWMD) for these efforts.	
DOI-4	The CEPP recommended plan represents an	Thank you for your comment.
	important first increment toward our longer-term	
	efforts to restore the historic flow connection	
	between Lake Okeechobee and the downstream	
	Everglades.	
DOI-5	Within the nearshore areas of Biscayne Bay, recent	CEPP Uncertainty ID # 62 within the AM Plan currently addresses the ecological
	operational changes have been implemented that	effects of CEPP hydrology on Biscayne Bay. See Section 1.4.4.2 of Annex D (Adaptive
	redirect additional available freshwater into the	Management and Monitoring Plans) for reference. This section of the AM Plan
	southern Miami-Dade coastal canal system. These	currently notes the importance of Biscayne Bay as a Florida Outstanding Water and
	small flow changes appear to temper high salinity	focuses on adaptively managing constructed and operational features of the CEPP in
	events and lengthen the beneficial salinity window	order to maintain the current level of surface and groundwater base freshwater flows
	as the region transitions into the dry season. These	to this area to where there is no change in the ecological condition of this region.
	operational flow improvements should be	
	sustained and, where possible, expanded through	
	the implementation of the CEPP and the Biscayne	
	Bay Coastal Wetlands project. In addition, the	
	Department recommends that the CEPP Adaptive	
	Management Plan include an acknowledgement of	
	the importance of maintaining beneficial	
	freshwater flows to Biscayne Bay.	
9-100	The Department recommends that the Corps also implement a robust endangered species	The Final PIR/EIS will include the USFWS preliminary Biological Opinion that will outline the monitoring and costs required for endangered species.

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	monitoring plan and assess the results in coordination with the U.S. Fish and Wildlife Service	
	and other wildlife agencies to allow timely modifications to project operations for the	
	protection of those species.	
DOI-7	Given the uncertainty and risk associated with	Appendix D, Water Quality Monitoring Plan will be modified to include discussion of
	mercury in the Everglades, the Department	potential effects of CEPP hydrology on mercury methylation patterns. The discussion
	assessment at major project features and in	will include illeration that during design of major cert reactives, the cert include plan plan may be modified to include mercury and suifate monitoring in the event that
	associated downstream systems, beyond Annex D's	existing non-CEPP mercury and sulfate monitoring is insufficient to capture the
	sole specification for monitoring the A-2 Flow	potential effects of the project. The monitoring plan will not be modified at this time
	Equalization Basin (FEB).	because in the intervening years between plan authorization and project
		construction, 1) existing mercury monitoring plans are likely to be changed, 2)
		existing geographical distribution of methylmercury bioaccumulation patterns is likely
		to shift, and 3) mercury science is likely to evolve. A future monitoring prioritization
		and optimization process will be conducted, as specified in the CEPP Adaptive
		Management Plan, to determine how the project's monitoring budget will be
		allocated among important monitoring needs such as mercury and sulfate
		monitoring.
DOI-8	The Department concurs with the FDEP that the	Thank you for your comment,
	Draft PIRIEIS, as currently written, provides the	
	appropriate framework to address water quality	
	issues that may occur as a result of the	
	implementation of CEPP.	
6-100	The Department agrees with the State of Florida	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been
	that aithough the implementation schedule	edited since the release of the Draft PIR/EIS for public review on August 29", 2013.
	requires refinement and optimization, this need	Please see response to comment DOI-10 regarding potential sequencing of the
	not and should not delay completion of the PIR/EIS	proposed PPAs in the Final PIR/EIS. Other viable options for the implementation of
	and submittal to the Congress for authorization.	project features and subsequent groupings into PPAs may be considered in the future
	The implementation schedule should be flexible to	and is acknowledged within the Final PIR/EIS. The project construction contracts are
	allow changes in the sequencing of CERP projects	sequenced to optimize the varied internal and external project dependencies as well
	(including the CEPP components) and non-CERP	as capitalize on the sequential construction dependencies. For example, some
	projects and activities as appropriate. Flexibility is	projects could not start simultaneously due to competition of multiple contractors for
	essential to successful CEPP implementation given	the limited site access, staging and disposal.
	ated with th	
	implementation period and the inevitable	
	improvement in scientific knowledge about the	

COMMENTER	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
	functioning of the greater Everglades and estuaries that will occur as planned CERP and non-CERP projects and activities are completed. The Department recommends that the Corps explicitly acknowledge, in the PRIEIS, the importance of such flexibility.	
DOI-10	The well documented history of high water problems in southern WCA Ak is a good example of how modest refinements in CEPP project sequencing could be used to address adverse ecological conditions more quickly than the CEPP component sequencing currently proposes. As the CERP/CEPP planning process moves forward, the Department will recommend at the appropriate time that the Corps adjust the timing of conveyance and seepage management features around Tamiami Trail to move toward earlier improvements to convey existing water southward during times of high rainfall.	section 6.7.1 (Implementation Phases and Construction Sequencing) has been edited since the release of the Draft PIR/EIS for public review on August 29", 2013. Project features are grouped into three separate PPAs based upon the spatial distribution of the project features and the locations within the CEPP study area where separable hydrologic and environmental benefits would accrue. These groupings include a PPA of project features in northern WCA 34, (PPA North), a PPA of project features in southern WCA 34, 38, and ENP (PPA South), and a final PPA which provides the new water and required seepage management features that benefits the entirety of the study area (PPA Now Water). The Final PIR/EIS presents two potential implementation sequencing scenarios that are possible with the three separate Project Parntership Agreements (PPA) currently identified: 1) PPA North →
DOI-11	The State's recent commitment to jointly fund the 2.6-mile Tamiami Trail Bridge (the first increment of the Tamiami Trail Next Steps project) creates a unique opportunity to pull several, relatively low cost CEPP southern conveyance and seepage management features (5-333N, the 5-355W/L-29 divide structure, and the removal of Old Tamiami Trail) forward and make faster progress on	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been edited since the release of the Draft PIR/EIS for public review on August 29", 2013. The features mentioned in the provided comment have been included in PPA South. Implementation of PPA South would include conveyance features that function to redistribute water from WCA 3A to WCA 3B and ENP. Please see response to comment DOI-10 above regarding potential sequencing of the proposed PPAs in the Final PIR/EIS. Removed Old Tamiam Trail is included in PPA South; however the final PIR/EIS acknowledges that Old Tamiami Trail can be completed at any time during

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	improving the conditions in both WCA 3A and	implementation given project dependencies, but must precede backfilling of the L-67
	Northeast Shark River Slough, The current CEPP	Extension.
	implementation schedule assumes that these	
	features will not be implemented for	
	approximately 15-20 years, while our Tamiami Trail	
	Next Steps first increment efforts would	
	presumably have the western portion of the	
	Tamiami Trail flow-ready 5-10 years earlier. We	
	acknowledge that moving these CEPP conveyance	
	and seepage management features earlier would	
	require completion of upstream water quality	
	improvements (specifically the A-1 FEB).	
	Fortunately, the A-1 FEB is currently scheduled to	
	be on-line by approximately 2019, which should	
	either coincide with or precede the completion of	
	Tamiami Trail Next Steps first increment.	
DOI-12	We also believe that we would gain significant	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been
	additional public support for, and alleviate	edited since the release of the Draft PIR/EIS for public review on August 29th, 2013.
	stakeholder concerns about, the upstream WCA 3A	Please see response to comment DOI-10 above regarding potential sequencing of the
	hydropattern restoration improvements by	proposed PPAs in the Final PIR/EIS.
	focusing on addressing the current WCA 3A high	
	water problems and generally on increasing WCA	
	3A outflow capacity prior to increasing inflow	
	capacity.	
DOI-13	Another example of beneficial sequencing	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been
	flexibility is the implementation of the L-31N	edited since the release of the Draft PIR/EIS for public review on August 29th, 2013.
	seepage barrier in the CEPP, which is currently	Please see response to comment DOI-10 above regarding potential sequencing of the
	included in phase 7 (contract 10), or near the end	proposed PPAs in the Final PIR/EIS. Other viable options for the implementation of
	of the CEPP implementation. The CEPP	project features and subsequent groupings into PPAs may be considered in the future
	recommended plan conservatively included a	and is acknowledged within the Final PIR/EIS. The project construction contracts are
	seepage barrier of the length and depth necessary	sequenced to optimize the varied internal and external project dependencies as well
	for CEPP project seepage management	as capitalize on the construction dependencies. For example, some projects could
	requirements, in the event the barrier must be	not start simultaneously due to competition of multiple contractors for the limited
	constructed as part of CEPP. The recently	site access, staging and disposal.
	completed 2-mile L-31N seepage barrier project	
	constructed by the Miami-Dade Limestone	
	Products Association (Association), as mitigation	

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to seepage increases custed by rock mining, is currently being analyzed. This nov-CRP approach could pull these features forward to correspond and the general completion of the Inniam Trail work the general completion of the Inniam Trail work to great safety than it currently anticipated in CRP. This possibility should be examined in future revisions to the sequencing schedule. This possibility should be examined in future revisions to the sequencing schedule. This possibility should be examined in future revisions to the save is designated as an Outstanding Roirida Water (DRW). DOI-14 The Department recommends the sequencing schedule. CRP as most of the Bay is designated as an Outstanding Roirida Water (DRW). DOI-15 Who is not a Phone of the Roirida Water (DRW). DOI-16 Who is not a Phone of the Roirida Water (DRW). DOI-17 Who is not a Phone of the Roirida Water (DRW). DOI-18 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is not a Phone of the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is the Roirida Water (DRW). DOI-19 Who is t	2 0 0	or seepage increases caused by rock mining, is	
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		he A-2 FEB will be constructed in Phase 7 (the last	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been
	ď	hase) and year 19 of overall project construction.	edited since the release of the Draft PIR/EIS for public review on August 29th, 2013.
	ш	PA strongly recommends that USACE consider	Project features are grouped into three separate Project Partnership Agreements)
J	Ľ	noving the construction of A-2 FEB forward in the	(PPAs) based upon the spatial distribution of the project features and the locations

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	schedule because most of the hydrological benefits of CEPP (averaging 210.000 acre-ft/year) will be	within the CEPP study area where separable hydrologic and environmental benefits would accrue. These groupings include a PPA of project features in northern WCA 3A
	realized upon construction of A-2 FEB. The A-2 FEB	(PPA North), a PPA of project features in southern WCA 3A, 3B, and ENP (PPA South),
	will provide increased water storage (averaging	and a final PPA which provides the new water and required seepage management
	210,000 acre ft/year) and will have more far	features that benefits the entirety of the study area (PPA New Water). The Final bib/Eis property that appropriately implementation companies consider that are
	reaching benefits to the estuanes, and to the Everglades. It is EPA's view that expediting the	ring List presents two potential implementation sequenting scenarios tract are possible with the three separate PPAs currently identified: 1) PPA North → PPA South
	construction of this important component of the	→ PPA New Water and 2) PPA South → PPA North → PPA New Water. With each
	overall project would be in the best interest of the	scenario, non-CEPP project features and non-CERP project features identified as
	environment and the public.	project dependencies in Table 6-10 of the Draft PIR/EIS still apply.
		Implementation of PPA New Water would decrease high volume freshwater
		discharges from Lake Okeechobee that are currently sent to the Northern Estuaries.
		While water could be moved away from the Northern Estuaries, only a limited
		amount could be passed south into WCA 3 without the additional outlet capacity
		provided by PPA South. As a result, the FEB storage capacity would remain largely
		unavailable following the initial FEB filling each year and the opportunities to divert
		water away from the Northern Estuaries that the full CEPP plan provides would be
		extremely limited. The additional water sent south from the Northern Estuaries to
		the A-2 FEB would provide some benefit to northern WCA 3A. Additional storage
		capacity resulting from the construction of the A-2 FEB would help to improve the
		timing of deliveries to northern WCA 3A; however benefits would be limited. The
		Miami Canal would continue to function as a source of drainage for WCA 3A. PPA
		New Water would provide no benefits to WCA 3B as it does not include conveyance
		and distribution features located on the L-67 A/C canals. Limited benefits would be
		expected in ENP due to construction of the seepage barrier wall, since additional
		inflows from WCA 3A to NESRS would be constrained by water supply and the need
		to maintain preferred hydrology in WCA 3A with existing inflows (prevent increased
		dry outs). Florida Bay may benefit as it is largely influenced by changes in freshwater
		flows upstream.
		The ability to increase flows to the south as envisioned with the project depends on
		the construction of the A-2 FEB and a seepage wall in PPA New Water, as well as the
		distribution and conveyance features in PPA North and PPA South. Commencing
		construction on PPA New Water may occur after an executed agreement between
		the SFWMD and USACE occurs for both PPA North and PPA South. Construction of
		PPA New Water may be in parallel with construction of PPA North and PPA South

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		components.
EPA-3	In regards to water quality, some of the discussions	Thanks for the comment and assistance in addressing outstanding comments on the
	of water quality expectations, especially regarding	FEIS.
	Total Phosphorus (TP), are inconsistent with EPA's	
	understandings. EPA recommends USACE address	
	these inconsistencies (as discussed in our attached	
	detailed comments). Additionally, given the	
	potential changes in phosphorus loads and flows	
	into the Everglades, the EPA is encouraged that the	
	USACE and the SFWMD will closely monitor these	
	loads and flows. EPA is committed to providing	
	technical assistance to USSACE to address these	
	issues when developing the FEIS.	
EPA-4	We rate this document EC-1 (Environmental	Thank you for your comment.
	Concerns with adequate information) and request	
	that our comments be addressed in the FEIS.	
	Enclosed is a summary of definitions for EPA	
	ratings. We appreciate the opportunity to review	
	the proposed action and will work with the USACE	
	to help to resolve our issues.	
EPA-5	Wetlands:	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been
	EPA is concerned regarding the current project	edited since the release of the Draft PIR/EIS for public review on August 29th, 2013.
	implementation schedule. Currently, A-2 FEB will	Please see response to comment EPA-2 above regarding potential sequencing of the
	be constructed in Phase 7 (the last phase) and year	proposed PPAs in the Final PIR/EIS.
	19 of construction (page ES-6). EPA recommends	
	that USACE consider moving the construction of A-	
	2 FEB to an earlier date because most of the	
	hydrological benefits of CEPP (averaging 210,000	
	acre-ft/year) will be realized upon construction of	
	A-2 FEB (Figure 6-11, page 6-40).	
EPA-6	EPA notes that project sequencing is critical to	Water quality compliance considerations will be integrated into all phases of the
	assuring that the Everglades receive water that	implementation plan. No additional Lake Okeechobee flows to the south are
	meets applicable water quality standards. In	anticipated until completion of FEB A-2,
	particular, projects involving the L-4 levee	
	degradation, L-5 canal improvements and L-6	
	diversion are planned for years 1-3, EPA is	
	concerned that these projects will provide the	

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as STA bypass events) directly into the northern marsh of WcA3A, regardless of the quality of that water. It is important that this water be fully treated by the Restoration Strategies projects prior to discharge into the Everglades. EPA requests to be involved with development of Operations Manuals for CEPP implementation and to be a member of the interagency Operations/ Adaptive Management teams in order assist with addressing these water quality issues. The A-2 project, currently scheduled for year 19, is an essential component of treating flows greater than those in the Future Without (FWO) condition and Restoration Strategies prior to discharge into northern WCA3.	
a. Main Report: 1. On page ES-7, USACE states, " FEB included in SFWMDS "Restoration Strategies" project. To achieve restoration objectives for WCA 34, the recommended plan involves discharges from these stormwater treatment areas to previously unimpacted areas. Concerns were expressed about the effects of the new discharges on water quality and native flora and fauna in those un-impacted areas. Flows into WCA 34 must meet state water quality standards before discharges to un-impacted areas occur. To ensure that the recommended plan meets state water quality standards before discharges to un-impacted glischarges from the state facilities." All discharges to the Everglades must meet applicable water quality standards. Accordingly, FPA recommends that this statement should say, "discharges into WCA 34" not flows, and deleting the reference	replaced with discharges.

C.3-438

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Appendix C.3

Pertinent Correspondence Information

C.3-439

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	all regulated discharges into all areas of the Everglades, not just un-impacted areas, must meet the WOBEI.	
EPA-8	2. On page ES-8, USACE states, "The recommended plan also increases flows into Shark River Slough in Everglades National Park subject to the limits for total phosphorus contained in Appendix A of the 1991. Settlement Agreement for U.S. vs. SPWAND (Case No. 88-1886-Giv-Moreno) and in accordance with state water quality standards. Since the compliance determination calculation is inversely proportional to flow, increases in flow will lower the compliance limit. State and federal water managers expressed concerns that the recommended plan may increase the probability of exceeding the compliance limit and agreed to consider reevaluating the Shark River Slough compliance calculation." The United States Department of Justice (DOJ) will need to agree to this language. Similar language shows up in Chapter 8.	The DOJ participated in the negotiated water quality language in Section 8."
EPA-9	3. On In Table 2-8, under water quality, USACE states, "The SFWMD Restoration Strategies water quality treatment plan will be fully in place by 2025. Compliance with the 2012 Consent Order WQBELs is expected after 2059 when the SFWMD has completed implementation of the Restoration Strategies water quality treatment plan." The NPDEs permit also requires that the remedies be implemented and specifies that the WQBEL is effective immediately. EPA recommends US ACE better explain this point in the FEIS.	Table 2.3 on page 2-8 has been amended to include discussion of the NPDES permit and the fact that the WQBEL is effective immediately.
EPA-10	4. On Table 6-3, page 6-28 (under water quality), USACE states, "Implementation of the project is not expected to significantly affect the water quality of Lake Okeechobee or the Northern Estuaries. Changes in the quantity, timing, and	The impact of CEPP on water quality within the Everglades Protection Area is expected to vary geographically and temporally as detailed in the main document, and Appendix C. The USACE and the SFWMD are committed to ensuring that project implementation is done in a manner that minimizes the risk that water quality violations will occur.

distribution of flows within WCA 34 and WCA 38 may result in temporary increases in phosphous conventrations at some TP Rule monitoring effects on water quality are unlikely to be eliminated, water quality is expected to stations in properly in should not significantly soldly improve over existing and recent past containtors "During étailetle planning affect. The Rule compilance. Over the long-level design, the USACT and STWMD are committed to ensuring that project feature distributing the flow over the northern WCA-3A implementation will not result in violations of water quality standards." Implementation will not result in violations of water quality standards. Actions by the State of Roids are expected to be improved water quality the P Apoleca, Concentration entering the Park. Southern Estuarias satinity conditions are expected to be improved by the polecy occurrentation entering the Park. Southern Estuarias satinity conditions are expected to be improved by the polecy occurrentation entering the Park. Southern Estuarias satinity conditions are expected to be improved by the polecy occurrentation entering the Park. Southern Estuarias satinity conditions are expected to be improved by the Broward County, WP A Project, (eport approved in 2007) would reduce storm runoff deliverates to WLA and improve water quality coming according to the project area. If althorized in the next Water Resources County would reduce storm runoff deliverates to WLA and improve water quality standards (FD) will not be met. The SFWMD cannot exceed water quality standards (FD) will not be expensed project will run be better explain wherefore the proposed project will run be explained that the proposed project will cause violations of standards. EPA-11 Cause violations of standards. EPA-12 Cause violations of standards. EPA-13 Cause violations of standards. EPA-14 Cause of standards. EPA-15 Cause violations of standards. EPA-16 Cause violations of standards. EPA-17 Cause violations of standards. EPA-18 Cause violations of	COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
may result in temporary increases in phosphorus connectrations at some TP Rule monitoring stations; however, this should not significantly affect TP Rule compliance. Over the long-term, distributing the flow over the northern WCA-3A marsh, reducing short-circuiting down the canals, adding more flow from the lake that is treated to the WQBEL, should result in improved water quality within WCA 3 and a reduction in flow weighted mean total phosphorus concentration entering the Park. Southern Estuaries salinity conditions are expected to be improved by the project. Actions by the State of Florida's Restoration Strategies would decrease pollurant concentration and future loadings to the project area. If authorized in the next Water Resources Development Act Actions (WRDA), the Broward County WP A Project, (report approved in 2007) would reduce storm runoff deliveries to Wood. Sand improve water quality coming across Tamiami Trail." Also under the cumulative effects sont water quality are unlikely to be eliminated, water quality is expected to slowly improve over existing and recent past conditions." These paragraphs infer that water quality standards (TP) will not be met. The SYMMD cannot exceed water quality standards. EPA requests clarification regarding this paragraph and recommends that this paragraph better explain whether the proposed project will cause violations of standards. 5. In Table 5.1-3, Effects of Alternatives on Water Quality (page 5-14), USACE states, "There is risk that [WJQBEL will not be met without future modification of the Restoration Strategies plan, however, this risk is being minimized through		distribution of flows within WCA 3A and WCA 3B	
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	EPA-11	5. In Table 5.1-3, Effects of Alternatives on Water	Discussion of meeting the WQBEL has been removed since risk to USACE is minimal
		Quality (page 5-14), USACE states, "There is risk	given that sufficient time between initial operation of the A-1 FEB and initiation of
		that [W]QBEL will not be met without future	construction of CEPP features will allow State to optimize STA/FEB performance.
_		modification of the Restoration Strategies plan;	Additional information on Restoration Strategies can be found at referenced SFWMD
		however, this risk is being minimized through	sites.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	implementation of the Restoration Strategies	
	Science Plan Wnich is a requirement of the Restoration Strategies Consent Orders and	
	Agreement," EPA disag	
	first part of the sentence and believes that the	
	Restoration Strategies projects in concert with an	
	effectively implemented Science Plan should meet	
	the WQBEL. EPA requests clarification and	
	recommends that USACE better describe the	
	Restoration Strategies plan in the FEIS.	
EPA-12	b. Appendix C:	Section C.1.1.12.1 has been amended with a discussion of numeric nutrient criteria
	1. Water Quality (C.I.I.12.1 Nutrients, page C.I-52):	and TMDLs. The phosphorus rule, 1991 Consent Decree, and 2012 Consent Order are
	USACE doesn't mention the Numeric Nutrient	discussed and cross-referenced to Annex F.
	Criteria (NNC) or the current status of the 1991	
	Settlement Agreement compliance. However,	
	further in the document (C.I.1.12.6 Everglades	
	Agricultural Area, page C.I-58, and several other	
	sections within Appendix C and Annex F) USACE	
	better describes the NNC and Settlement	
	Agreement. EPA recommends that the USACE	
	cross-reference C.1.1.2.6 (and other applicable	
	sections) in the Nutrients section.	
EPA-13	2. WQBEL: In section C.I.3.12.3 Everglades	Discussion of meeting the WQBEL has been removed since risk to USACE is minimal
	Agricultural Area, page C.I-120, USACE states, "The	given that sufficient time between initial operation of the A-1 FEB and initiation of
	[W]QBEL is applied at the discharge of each	construction of CEPP features will allow State to optimize STA/FEB performance.
	individual STA. Restoration Strategies documents	
	produced by the SFWMD acknowledge that	
	meeting the [W]QBEL will be difficult given that	
	few of the existing ST As have demonstrated the	
	ability to consistently produce effluent that meets	
	this standard." EPA disagrees with this statement	
	and thinks it incorrect. The Restoration Strategies	
	was developed to ensure water quality standards	
	will be met. EPA requests USACE clarify this	
	statement or delete it from the FEIS.	
EPA-14	3. On page C.I-121, USACE states, "Nutrient and	The text has been corrected to reference the central flow path.
	sulfate concentrations and loads for WCA 3A for	

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	the FWO condition should decrease relative to the	
	existing baseline condition because of the	
	implementation of the SFWMD's Restoration	
	Strategies features within the eastern flow path of	
	the EAA." EPA requests US ACE confirm that	
	eastern flow path efforts are projected to affect	
	central flow path discharges into WCA3A.	
EPA-15	c. Annex F:	Text has been amended as suggested.
	1. Annex F is generally well presented.	
	2 On page E-3 11SACE states "Compliance with	
	WOBEI for the STAs rannot he determined until all	
	corrective actions have been completed and	
	sufficient discharge data exists to assess	
	compliance with both components of the WQBEL	
	Compliance with the WQBEL shall be determined	
	based on the conditions contained within the	
	NPDES permit (FL0778451), EFA permit (0311207),	
	NPDES Consent Order (12-1148), and EFA Consent	
	Order (12-1149)." The WQBEL has two parts which	
	both must be met: STA discharges shall not exceed	
	13 parts per billion (ppb) as an annual flow-	
	weighted mean (FWM) in more than three out of	
	five years on a rolling basis (Part 1), and shall not	
	exceed 19 ppb as an annual FWM in any water year	
	(Part 2). Once corrective actions have been	
	completed, if in the first subsequent year the STA	
	discharges at higher than 19 ppb, then it is possible	
	to determine that the WQBEL is not met at that	
	time. This phrase should be deleted: "and sufficient	
	discharge data exists to assess compliance with	
	both components of the WQBEL."	
EPA-16	3. On page F-7,USACE states, "For instance, it is	The Corps is required to acknowledge risk/uncertainty and consequences of projects
	possible that the water depth and duration of	in the planning documents. Failure to meet WQBEL is a potential outcome. The text
	inundation may cause the FEB to be less efficient at	has been modified to state that " It is possible that the STA/FEB system may to be
	removing TP than predicted by the DMST A2	less efficient at removing TP than predicted by the DMSTA2 modeling presented here.
	modeling presented here. This may result in a	*:

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	sistently meet the WQBEL at the
outfall of STA 3/4 and STA 2B." A failure to meet the WQBEL is a problem. EPA requests clarification on this statement. 4. On page F-9, USACE refers to FWM TP concentrations shown in Table F-1. This is the wong citation. 5. On page F-5, USACE, "The TP concentrations at these structures are elevated, although the adjacent marsh concentration sare low, where the average annual concentration (for Federal Water Year Oct-1 to Sep-30) varies between approximately 10 and 39 ppb." These referenced concentrations are from the structures, not the adjacent marsh, as the sentence currently reads. EPA recommends USACE more accurately discuss this in the FEIS. 6. On page F-27, Table F-6 provides arithmetic average TP data for grab samples at structures in canals near Shark Slough. Annual water year TP averages presented as a flow-weighted mean or geometric mean would be more informative sine all Everglades structure discharge compliance data are presented as flow-weighted means, and marsh data are presented as flow-weighted means, and marsh data are presented to remain at or below existing background levels given the distribution of flows across the length of the degraded levee." "When more natural overland flow is established with CEPP, there is uncertainty as to how loading and water movement will affect how total phosphorous concentrations in the marsh respond." These two statements appear to be contradictory. How does one conclude what marsh concentrations are	
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	F-29, USACE states, "The TP State and Federal water quality experts extensively debated the effect that CEPP
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CEPP, there is uncertainty as to how loading and water movement will affect how total phosphorous concentrations in the marsh respond." These two statements appear to be contradictory. How does one conclude what marsh concentrations are	overland flow is established with
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one conclude what marsh concentrations are	pear to be contradictory. How does
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	further qualifying "expected" in the first sentence.	
EPA-21	8. On page F-30, USACE states "(2) although long-	Bafarencas to darrease in Inads base been removed from the tast on nase 5.30 after
	northeast SRS are expected to decrease, " Flow	consideration of the uncertainty in this prediction and understanding that there will
	into the Park is expected to be increased by over	be times when loads are higher under with-project conditions.
	120,000 acre-feet from the FWO, and the FWO TP	
	concentrations are already low at 10 ppb. Please	
	confirm that loads are expected to decrease.	
EPA-22	9. On page F-35, the following statements appear	C JACA COC TO
	to be contradictory; Notwithstanding the mability to confidently predict future SRS inflow	since 2007, Sha ii Piconcentrations have been at or siightily below the water quality criteria. State and Eederal water managers believe that there is a significant risk
	concentrations, SRS TP concentrations are	of future violations of the SRS criteria under existing conditions. Though TP
	expected to improve relative to ECB conditions and	concentrations at SRS are expected to go down, with the addition of CEPP flows there
	are likely to improve under ALT4R2 conditions."	is risk of non-compliance with current Appendix A compliance methodology. Overall,
	"Given the magnitude of the hydrologic changes	the state and federal partners are committed to designing and implementing CEPP
	proposed in ALT4R2, this project presents some	such that water quality standards are met.
	risk of future non-compliance with water quality	
	criteria particularly in WCA-3 and at SRS." If SRS TP	
	concentrations already meet water quality criteria	
	and concentrations are expected to improve, then	
	how does the project present some risk of future	
	non-compliance?	
EPA-23	d. Mercury and Sulfur:	The mercury and sulfate discussion in Appendix C has been edited with the
	There are many specific statements about mercury	cooperation of EPA, DOI, FDEP, and SFWMD to address all state and federal agency
	or sulfur in Appendix C and the DEIS that need a	comments,
	citation. There are other statements that tend to	
	overstate the science and overlook scientific	
	uncertainty. EPA is committed to providing	
	technical assistance to the USACE to address these	
	C.1-52 states that approximately 90% of	
	atmospheric mercury in peninsular Florida is	
	sourced internationally (no reference, and this is an	
	area of scientific disagreement). Please cite the	
	Florida mercury TMDL as appropriate and confirm	
	the statement or revise as needed. On page 5-15	
	and elsewhere there are statements that mercury	

Appendix C.3

CEPP Final PIR and EIS	ind EIS	April 2014
	section of the ElS. Omission of these important sections of the DEIS is confusing not only to	
	Environment" and "Environmental Consequences"	
	sections required by NEP A (40 CFR 1502.1 0). For example omitted from the DFIs is the "Affected	
	for an EIS. The current lay out of the EIS omits key	
	40 CFR Parts 1500-1508 outlines the requirements	
	more efficient and effective documents; however,	ensure tile reduer can mid tile pertinent innomnation and provide fall transparency.
	called "Smart Planning." EPA appreciates the	provide a better crosswalk between our report format and the NEPA requirements to
	new way of conducting NEPA and feasibility studies	Following the new Smart Planning process and the Integrated PIR/EIS format, we will
	EPA understands that the USACE has developed a	
	federal agencies as well as USACE regulatory EISs.	Table of Contents for the entire document has been added as well.
	The USACE's layout of the DEIS is noticeably	Location Within This Document. Page numbers will be added to the sections lists in
EPA-24	3. EIS Lay Out:	In the Table of Contents there is a table that lists the EIS Requirement and the
	methylmercury formation and bioaccumulation."	
	possible to predict with certainty the effect of	
	the complexity of the methylmercury cycle, it is not	
	1.121 which better reflects this uncertainty: "Given	
	area of scientific debate, and citations are needed).	
	stated as fact rather than hypothesis (this is an	
	and mercury concentrations on page C.I-53 is	
	2012.) The relationship between specific sulfate	
	period; 2014 draft SFER reports no change in	
	the Park have been increasing over this same time	
	any significant decrease in largemouth bass	
	mercury sources. (The 2014 draft SFER notes that	
	fallen significantly in response to reductions in local	
	atmospheric load (no reference). On page C.1-53 it states that between 1997 and 2012 fish tissue has	
	is likely to increase as a result of increased	
COMMENTER	AGENCY/PUBLIC COMINENT load available for net methylation in the Everglades	CURPS RESPONSE
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	public. The table of contents table roughly outlines the location of required EIS sections; however, some sections are scattered throughout the DEIS For example, the required "Environmental Consequences" section can be found scattered throughout Sections 4, 5 and 6 and the "Alternatives Section" can be found in Section 3, 5, and 6. This disjunction can lead to confusion and lacks the transparency required of NEPA. Most of the information regarding "Affected Environment" and "Environmental Consequences" can be found hin the main document (Section 2, 4, 5 and 6) and Appendix C. EPA recommends that USACE state the page numbers that various EIS sections can be found within the document to assist the reader in finding the pertinent information. Additionally, EPA recommends that the USACE consider formatting future EIS's to more doesly follow.	
EPA-25	4. Environmental Justice (EJ) and Children's Health: There is no mention of El in Section 2 (Existing and Future Without Conditions) or Appendix C. There is a short paragraph discussing El and NFP A and the US ACE asserts " no high or adverse effects." However, the USACE doesn't identify potential El communities (other than tribal communities) within the EIS. Did USACE conduct any El specific outreach opportunities? Additionally, we recommend that the USACE better outreach to known El communities within the study area. In the FEIS, EAP ecommends that the USACE identify El communities and potential impacts (both positive and negative) to these communities in both Section 2 and Appendix C. For example, reduced flows (and thus lowered nutrient levels)	The Environmental Justice analysis was added to Section 4 under Other Social Effects and additional analysis was added to Appendix C.4. The Protection of Children analysis was added to Section 4 under Other Social Effects and additional analysis was added to Appendix C.4.

April 2014

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	discharging from the St. Lucie and Caloosahatchee canals could improve fisheries production, which might benefit El communities along the coast. Additionally, there is no mention of children's health in the DES. Executive Order 13045: Protection of Children from Environmental Health Risks and Safety Risks encourages federal agencies to consider impacts and risk to children's health when planning projects. EPA recommends USACE describe any possible children's health risks in the FEIS.	
EPA-26	5. Tribal Consultation: The DEIS discusses ongoing tribal consultation. EPA encourages continued consultation with the Seminole Tribe of Florida and Microsukee Tribe of Indians of Florida at all levels of decision-making. The EPA works closely with both Tribes on Everglades matters and is committed to working with other federal partners to prioritize the Tribes' water quality and water management concerns.	Thank you for your comment. The Corps recognizes the importance of early and continuous consultation. Consultation with the Seminole Tribe of Florida and the Miccosukee Tribe of Indians is ongoing pursuant to the NEPA and Section 106 of the NHPA.
EPA-27	6. Table 2-1. Existing Conditions and Future Without Project Conditions. a. Cross-reference to Appendix C: This table does an adequate job of briefly describing the existing conditions; however, there are no citations within the table that would reference each specific condition to more detailed information in Appendix C. For ease of use and readability, EPA recommends USACE cite the section in whith each specific condition can be found within Appendix C.	Table 2.1 has been edited to include references to specific sections in Appendix C (Environmental and Cultural Resources Information) where more detailed information is available.
EPA-28	b. Water Quality entry: The water quality entry (pg 2-8) discusses TMDLs, and states that implementation of TMDLs, would improve water quality. However, the USACE doesn't list the TMDLs or the status of development or implementation of the TMDLs. EPA recommends USACE better discuss TMDL implementation within Appendix C and cross	TMDL's are mentioned in Appendix C.1, Section C.1.1.12 which references the FDEP website that posts the status and implementation of TMDLs. Additional language regarding the Lake Okeechobee TMDL Basin Management Action Plan process has been added to Appendix C.1, C.2.1, and Section 5 of the main report. Annex F includes substantial discussion of the Restoration Strategies Plan as well as refers the reader to the appropriate SFWMD website for more information.
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	reference in Table 2-1. Additionally, USACE states,	
	"Compliance with the 2012 Consent Order WQBELS	Table 2-1 has been edited to include reference to compliance with related NPDES
	is expected after 2025 when the SFWMD has	permits.
	completed implementation of the Restoration	
	Strategies water quality treatment plan," However,	
	it is not just the 2012 consent order, but the NPDES	
	permit that also requires the remedies be	
	implemented and the WQBEL is effective	
	immediately. EPA recommends USACE better	
	discuss the Restoration Strategies in the FEIS.	
EPA-29	c. Air Quality entry: In the Air Quality entry (pg 2-9)	The Census Bureau's 2030 projection shows a total population for Florida of 28
	under the FWO, USACE states that, "It is	million. (Reference:
	anticipated that increased population and	http://www.census.gov/population/projections/files/usinterimproj/10PyrmdFL3.pdf.)
	economic expansion in southeast Florida will result	According to the Census Burea, the 2010 population of Florida was approximately 19
	in an increase in ozone and other air quality	million. A significant proportion of the additional 9 million Floridians will likely reside
	pollutants." EPA believes there is no basis for this	in Southeast Florida over the next 20 years. Since air pollutant loading is typically
	statement and requests clarification. Additionally,	correlated with population, it is reasonable to assume that increased population will
	there are inconsistencies in how population	adversely impact air quality.
	numbers are presented. For example, in the Water	
	Supply entry (page 2-8), states "Economic forecasts	The statement regarding water supply and population projections is not
	have changed since the Restudy, decreasing the	contradictory. The population projections referenced in the water supply discussion
	population projections ", which seems	talk about a decrease in the future population projection relative to prior population
	contradictory to the population statement in the	projections. This is not a decrease in actual future population relative to present
	Air Quality entry. Additionally, in the Populations	population.
	section (page 2-9) discusses population trends and	
	expansion from 1950 to 2000. EPA recommends	
	that US ACE use the 2010 Census data or more	
	recent population projection data to more	
	adequately discuss population trends and	
	consistently use these numbers in Table 2- 1 and	
	other sections within the document.	
EPA-30	7. Graphic Displays:	The figures have been enlarged to make them easier to read.
	a. Figure 2 (page ES-3) is an excellent graphic	
	comparing the various components of each	
	alternative. However, the graphic is too small and	
	is hard to read. EPA recommends that the Figure 2	
	(and other displays of this graphic) be enlarged to a	

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	COMMENTER /	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
L'1-84 depitcit the difference between the red and yellow highlighted areas. CI-84 depitcit the difference between the red and yellow highlighted areas. My comments are from the viewpoint of a scientist at the NOA-NMFS Southeast Fisheries Science Center who is working with RECOVER, is a member of the RECOVER Leadership Group, and has taken part in some of the planning workshops. My comments in no way supplant or intentionally contradict any comments provided by resource managers in the Habitat Conservation or Protected Resources divisions of the NOA-NMFS Southeast Regional Office, St. Petersburg, Florida, who may be commenting. I support the objectives of CEPP, as stated in the PIR. I agree that Alternative 4R2, as refined to avoid the potential damage to the water supply of the Lower East Coast and Biscayne Bay that was suggested by the hydrologic models used in plan development, is the best choice as the Tentative Selected Plan. I am encouraged that the tentatively selected plan will, as expected, benefit Florida Bay and the southwest Florida coast by augmenting freshwater flow to these estuaries and thus reducing the intensity and duration of ecologically damaging high salinity levels and Caloosahatchee River ecosystems. I hope that the implemented plan will prevent the St. Lucie and Caloosahatchee River ecosystems. I hope that the implemented plan will prevent the St. Lucie and Caloosahatchee River ecosystems. I hope that the implemented plan will prevent the St. Lucie and Caloosahatchee River ecosystems. I hope that the implemented plan will prevent the St. Lucie and Caloosahatchee River ecosystems. I hope that the implemented plan will prevent the St. Lucie and Caloosahatchee River ecosystems. I hope that the implemented plan will prevent the St. Lucie and Caloosahatchee River ecosystems. I hope that the implemented plan will prevent the St. Lucie and Caloosahatchee River ecosystems. I hope that the Internative Courted by Easterd Courted Bay in the Part Plan.		full page so it is easier to read.	
a state of the sta		o. Appendix C: EPA recommends the map on page	Text has been added to Section C.1.2 (Existing Conditions of Native Americans) to
Sin he was a sin to the sin to th	_	C.I-84 depict the difference between the red and	define the red and yellow coloration depicted on C.1-84. Red coloration depicts
# # # # # # # # # # # # # # # # # # #	_	yellow highlighted areas.	reservation and leased lands by the Miccosukee Tribe of Indians of Florida. Yellow
			coloration depicts reservation and leased lands by the Seminole Tribe of Florida.
My comments are from the viewpoint of a scientist at the NOA-NMISS Southeast Fisheries Science Center who is working with RECOVER, is a member of the RECOVER Leadership Group, and has taken part in some of the planning workshops. My comments in no way supplant or intentionally contradict any comments provided by resource managers in the Habitat Conservation or Protected Resources divisions of the NOAA-NMFS Southeast Regional Office, St. Petersburg, Florida, who may be commenting. I support the objectives of CEPP, as stated in the PIR. I agree that Alternative 4R2, as refined to avoid the potential damage to the water supply of the Lower East Coast and Biscayne Bay that was suggested by the hydrologic models used in plan development, is the best choice as the Tentative Selected Plan. I am encouraged that the tentatively selected plan will, as expected, benefit Florida Bay and the southwest Florida coast by augmenting freshwater flow to these estuaries and thus reducing the intensity and duration of ecologically damaging high salinity levels and cloosahatches River ecosystems. I hope that the implemented plan will prevent the St. Lucie and cloosahatches exuch as those that occurred this year. My main points of concern are directed at the treatment of Bissayne Bay in the Draft Plan.	VATIONAL OCEAN	IC AND ATMOSPHERIC ADMINITRATION (NOAA)	
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		My main points of concern are directed at the	Alt 4R2 meets the requirements of the WRDA 2000 Savings Clause by maintaining
	_	treatment of Biscayne Bay in the Draft Plan.	current levels of service for flood protection and causing no elimination of existing
_		Although concerns for potential effects of the	legal sources of water supply within the areas affected by the project. The suggested

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	preferred alternative on freshwater flows to	description provided for Biscayne Bay has been included in Section 1 (Introduction)
	Biscayne Bay are expressed in several places,	Table 1-1.
	especially the Adaptive Management Plan, the	
	scarcity of any mention of Biscayne Bay in the main	
	sections of the plan, even where the Lower East	
	Coast (LEC) is mentioned, is surprising. Surely the	
	the water table east of L31-N is lowered by the	
	Tentative Selected Plan is an unresolved issue that	
	should be listed in the ES section. Lack of mention	
	of Biscayne Bay in the description of the South	
	Florida geography, even when the LEC is described	
	(page 1-5), is another glaring omission. This	
	omission might cause confusion to readers when,	
	later in this document, possible impacts of the	
	Project on Biscayne Bay are mentioned. I suggest	
	adding the following wording to the LEC section of	
	Table 1-1, Description of the Study Area Regions:	
	"Biscayne Bay and the contiguous water bodies	
	Card, Little Card, and Barnes sounds and Manatee	
	Bay lie along the eastern mainland boundary of the	
	Lower East Coast and receive their freshwater	
	supplies as inflows of surface and groundwater	
	that are dependent on water table stages east of	
	L31-N."	
NOAA-4	Biscayne Bay also should be mentioned on page 1-	Constraints as described in Section 1.3.1.2 (Constraints) are consistent with those
	11 under "Constraints" and on page 3-30 with	identified in Section 601(h)(4) and (5) of WRDA. Additional detail is further expanded
	respect to seepage management and possible	upon in pertinent sections. Reference to Biscayne Bay has been added to Section
	effects on freshwater flows to Biscayne Bay (i.e., in	3.2.4 (Screening of Seepage Management Measures) by editing the following
	section 3.2.4 Screening of Seepage Management	introductory sentence. Seepage management measures must also meet the project
	(Yellowline).	constraints to not reduce the level of service for flood protection and to maintain
		existing water supplies for agricultural and urban areas immediately east within the
		LECSA and biscayne bay, which could potentially be affected by restored water levels in the Everglades.
NOAA-5	Finally in Section 4, Evaluation and Comparison of	Reference to Biscayne Bay has been incorporated.
	Alternative Plans, Table 4-1, Biscayne Bay is mentioned in the last objective "Reduce water loss	
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	(seepage out of the natural system to promote appropriate dry season recession rates for wildlife utilization ", however, the omission is in the last sentence, which reads "The TSP will be modified to reduce seepage management infrastructure and/or improve operations in order to avoid impacts to water supply. (I suggest that you insert the following in front of the period ", including water flows to Biscayne Bay".)	
NOAA-6	The next objective, "increase availability of water supply", fails to specifically say that efforts will be made to increase water flow to Biscayne Bay.	The objective to increase water supply addresses agricultural/municipal and industrial uses. The two previous objectives found on Table 1-2 in Section 1 address providing freshwater to the natural system. In addition, as part of the Savings Clause analyses found in Section 6.8 and Annex B, the effects of CEPP on existing sources of water to fish and wildlife were evaluated, which included Biscavne Bay.
NOAA-7	Fortunately, these issues and the potential for making improvements in performance relative to Biscayne Bay, are included in the Adaptive Management Plan, although in some cases reference to Biscayne Bay is obtuse.	The title of the appropriate section of the adaptive management plan was renamed "1.4.4.2 CEPP Hydrologic fffects on Lower East Coast Ecosystems including Pennsuco Wetlands, south Miami-Dade wetlands, and Biscayne Bay" to help readers locate this section.
NOAA-8	Looking over the plan, it seems even more unfortunate, in retrospect, than at the beginning of Central Everglades planning, that Bissayne Bay, as a southern estuary influenced by CERP, was not given full membership in the study area and the planning process. Bissayne Bay is important to the ecronomy and wellbeing of Miami-Dade County. Greater Bissayne Bay (including the sounds and Manatee Bay) is the site of Bissayne National Park, a Florida Aquatic Preserve, and the upper part of the NOAA Florida Keys National Marine Sanctuary. Manitanining its freshwater supply is crucial to its future and its natural and economic value.	The CEPP is composed of increments of project components that were identified in CERP. The term "increment" is used to underscore that the study formulated portions (scales) of individual CERP components. It is envisioned that later studies will formulate additional scales of CERP components to expand upon this initial "increment" to achieve the level of restoration envisioned for CERP. It is recognized that there are problems and opportunities remaining in Biscayne Bay.
NOAA-9	In all modeling work exploring the potential for preventing any decrease in flows to Biscayne Bay and augmenting flows to Biscayne Bay, relative to existing conditions, special emphasis should be given to mid and late dry season flows, which are	Analysis of Alt 4R2 average annual flows through individual coastal structures in Biscayne Bay on no greater than a 5% mean decrease (central Biscayne Bay). Alt 4R relative to the IORBL1 is the same except for a less than 13% decrease in the average annual flows at two northern coastal structures (5-23 and 5-27). Additional
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	especially stressful to the ecosystem. Hypersaline conditions have already been recorded near the western shoreline of Biscayne Bay, which has no fresh water inflow to spare.	analysis of Alt 4R2 seasonal flows against IORBL indicate slight decreases in flows during the dry season at most coastal structures in north and central Biscayne Bay with increases in dry season flows in south-central and south Biscayne Bay. To ensure the slight decreases dry season flows do not result in a negative effect on the ecological resources of Biscayne Bay, guidance has been provided in the Adaptive Management Plan (Section 1.4.4.2 of Annex D) to specifically address the effects of freshwater flow on the ecology of Biscayne Bay.
NOAA-10	Two other comments on the CEPP PIR: Longer hydroperiods and higher water tables in the Greater Everglades could potentially increase both local and regional rainfall, since evapotranspiration will increase. An increase in evapotranspiration is mentioned as an effect of the Alternatives, but increased rainfall is not.	Sections 5.1.1 and 5.2.1 (Climate) of the PIR will be updated to include the increases in localized rainfall as a potential effect of CEPP.
NOAA-11	Silica should be added, along with nitrogen and phosphorus, as a nutrient to follow in water released from the Greater Everglades to the southern estuaries (e.g., Florida Bay and Biscayne Bay), because blooms of diatoms that occur in these systems may be promoted by silica loads flushed from the Everglades after release from soils.	Silica is already measured as multiple water quality monitoring stations in the Everglades. Using a mass balance approach, a 10 percent increase in SIS flows from CEPP is likely to only result in a 2 to 5 percent increase in silica load at SRS given additional treatment capacity in the STAs (large silica particles settle). Increased silica load to the southern estuaries is likely to be minimal.
Seminole-01	Seminole TRIBE OF FLORIDA (Seminole) Seminole- 01 The current draft Els recognizes the meetings that are occurring among the [South Florida Ecosystem Restoration] Task Force member agencies and Tribes, including the Seminole Tribe of Florida, to discuss the issues the Tribe has raised, including restoration of the wetlands on the Tribe's Big Cypress Reservation, Big Cypress National Preserve, and Addition lands. However, due to the lack of data, monitoring, and modeling in this area the agencies are not yet at a point to make significant commitments to the Seminole Tribe of Florida for restoration of the area. The Seminole Tribe of Florida for restoration of the lack of attention	The Corps understands the Seminole Tribe of Florida's interest in seeing the Central Everglades Planning Project used as a vehicle to deliver the long-term hydrologic benefits. However, within the broader Comprehensive Everglades Restoration Plan (CERP), the current CEPP study unfortunately could not specifically address multiple restoration projects, to include the delivery water to the Big Cypress Reservation as the Seminole Tribe of Indians envision. As only the first of several increments to support restoration, the CEPP planning study sought to identify a suite of projects that most effectively capitalizes on existing data, knowledge, evaluation tools previously constructed restoration features and lands currently available. Implementing an incremental approach along with the continued gathering of critical scientific data and knowledge will certainly lacilitate future studies and subsequent progress in restoration. The Corps remains fully committed to ecosystem restoration and continued engagement with key partners and stakeholders. Also, a subset of

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	given to the Western Everglades. The Seminole Tribe's continued support of CEPP is based on the understanding that the USACE and the SFWMD will continue to work with the Seminole Tribe towards restoring and rehydrating the Western Everglades system including the Big Cypress Reservation, Big Cypress National Preserve, and the Addition lands.	South Florida Ecosystem Restoration Task Force (SFERTF) member agencies has convened to discuss this issue and other specific concerns raised you and a mission statement has been drafted in support of the restoration of the Big Cypress Seminole Inhian Reservation natural areas and adjacent portions of the Big Cypress National Preserve. Its purpose is to identify and recommend to the SFERTF opportunities to restore ecological and culturally utilized natural areas within the Big Cypress Reservation and adjacent portions of the Big Cypress National Preserve to support the designated uses of water bodies including wetlands. The SFERTF meetings included a Seminole Tribe - Western Basins meeting on January 29, 2013; Restoration of the Western Everglades Natural System Meetings on March 12, June 19, Audust 6 and September 18, 2013; and a Big Cypress Seminole Indian Reservation Pebruary 20, 2014.
Seminole- 02	This is the first project that the USACE has conducted early formal government to government consultation on cultural resources with the Seminole Tribe. This appraed is greatly appreciated, and we are hopeful this approach will be taken with existing and future projects.	Thank you for the comment. Consultation with the Seminole Tribe of Florida is very important to the Corps.
Seminole- 03	During the consultation process, the Seminole Tribe expressed concerns about the level and quality of the archaeological work conducted by the USACE's consultants.	The Corps acknowledges that the Seminole Tribe of Florida has expressed concern about the lack of Phase I Surveys conducted within WCA 3 and the Tribe's requests for additional surveys to be conducted within the area. Under 36 CFR 800 and ER 1105-2-100 the Corps is required to make a reasonable and good faith effort to identify historic properties. As specified in the Secretary of Interior's Standards and Guidelines for Identification (http://www.cr.nps.gov/local-law/arch_stnds_2.htm), the Corps conducted Phase I and Phase II investigations "to the degree required to make decisions" for this feasibility report. As stated during consultation and in the PIR/EIS, any additional cultural resources fieldwork and/or agreement documents will be completed during the pre-construction engineering and design (PED) phase.
Seminole- 04	The Seminole Tribe also expressed concerns over the numerous unknowns regarding cultural	To clarify, the Corps is currently drafting a policy guidance memorandum to update and expand the 2008 CERP Policy on Human Remains to apply to all Civil Works and

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	resources within the area of potential effect. In	Regulatory actions within the respective jurisdiction of these Jacksonville District
	response to the unknown, the USACE committed to	programs in the State of Florida. This document is an internal guidance document
	the completion of a human remains policy that	designed to consolidate and clarify existing Corps documents regarding the treatment
	would be a binding agreement governing the	of human remains pursuant to Section 106 of the National Historic Preservation Act
	treatment of burial resources and would serve as	(NHPA) and the Jacksonville District's Federal Trust Responsibilities for the state of
	an adaptive management plan for the protection of	Florida. As an internal policy guidance memorandum, the document will not require
	burial resources,	signatures by partnering agencies and/or the Tribes and will, therefore, not serve as
		an agreement.
Seminole- 05	The human remains agreement has not yet been	The Corps is also looking forward to continuing consultation and working towards
	finalized; however, we look forward to continuing	finalizing the human remains policy guidance memorandum.
	to work with the USACE on its completion.	
Seminole- 06	It is critically important that the District Engineer's	The purpose of the District Engineer's (DE) recommendations (Section 8) is to explain
	recommendations for CEPP capture this	to Corps headquarters what is being proposing and what we are requesting of
	commitment to develop this Agreement.	Congress related to the CEPP Project. This section also states what is required from
	Therefore, we respectfully request that the	the non-federal sponsor. This is not the proper place to include language concerning
	development of this human remains agreement be	the human remains guidance document.
	included in the District Engineer's	
	recommendations in the PIR	
Seminole- 07	<u>Letter Enclosure: Appendix A</u>	The Corps will make these requested changes to Sections 2.5 and 5.3 to be inclusive
		of all substitute lights, naturally, issuing, trapping, and nogging.
	In Section 2,6 [and] Section 5,3 states that	
	subsistence activities for members of the Seminole	
	Tribe include hunting and fishing; the Seminole	
	Tribe requests that the terms "trapping" and	
	"frogging" be added to this sentence.	
Seminole- 08	Section 6.1.2.3,the Seminole Tribe requests that	Thank you for your comment. Language will be added to the PIR/EIS stating that the
	language be added stating that the Seminole Tribe	Seminole Tribe has customary usage rights in WCA3A and that the area is culturally
	has customary usage rights in WCA3A. The	significant,
	Seminole Tribe has legally protected interest in	
	these lands that should be acknowledged here. It	
	should also be acknowledged that this area holds	
	significant cultural significance to the Seminole	
	Tribe in addition to its customary usage rights.	
Seminole- 09	Annex Brefer to STOF consistently as "Seminole Tribs of Elocida"	The language will be adjusted to reflect this request.
	HIDE OF FIGURE 1	
Seminole-10	In Table B-4 of Annex B, under (II), [t]his	In Table B-4 of Annex B, under (III), [t]his Ihank you'r comment. The recommended language will be added.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	sentence should be completed to say "including	
	the Seminole Tribe of Florida's Brighton and Big Cypress Reservations."	
Seminole-11	Annex B, Section B.3.1.3 In addition to changing	Thank you for your comment. The language will be corrected.
	the document to refer to the Seminole Tribe as the	
	Seminole Tribe of Florida, this sentence should	
	change the word "withdrawals" to "withdraws."	
Seminole-12	[P]age C-19 of Annex C The Seminole Tribe	Thank you for your comment, the following language will be changed for Annex
	appreciates that the document references	C.3.3.1.2 S-630 to read: "The structure would be a pump station with a design
	maintaining the existing water supplies, but	capacity of 360 cfs. S 630 would be located in the L 4 Canal, east of the existing L 4
	requests that this sentence specifically identify the	Levee gap, to maintain existing water supply deliveries to the Seminole Tribe's Big
	Reservation so as to provide greater clarity.	Cypress Reservation and to stage up water in the L 4 Canal to allow discharge over
		the L 4 Levee degrade."
Seminole-13	The Seminole Tribe would also like to reiterate that	The government-to-government consultation throughout the CEPP study has been
	it remains interested in continued discussions on	invaluable. The Corps remains fully committed to ecosystem restoration and
	assisting the USACE and SFWMD in their water	continued engagement with key partners and stakeholders. The Corps will continue
	management goals by taking excess water from	to remain engaged with the Seminole Tribe of Florida and other Task Force member
	Lake Okeechobee for storage on the Big Cypress	agencies in support of the restoration of the Big Cypress Seminole Reservation
	Reservation, thereby helping restore the natural	natural areas and adjacent portions of the Big Cypress National Preserve to identify
	areas on the Reservation, as well as Big Cypress	and recommend opportunities to restore ecological conditions and support the
	National Preserve and the Addition lands. This	designated uses of water bodies including wetlands within these areas.
	would be an achievable, positive step towards	
	restoration of the Western Everglades and the	
	Seminole Tribe continues to support CEPP with the	
	understanding and expectation of further	
	consultation on this matter with the USACE and the	
	South Florida Water Management District.	
Seminole-14	The Seminole Tribe has continuously requested	Thank you for your comment. The SFWMD is updating the Lower West Coast Surficial
	that the USACE consider discussing the possibility	Aquifer and Intermediate System Model, a groundwater flow model, to include the
	of sending water from Lake Okeechobee to the Big	intermediate aquifer system. Once peer reviewed, which is tentatively scheduled for
	Cypress Reservation for storage, which would also	completion during Fiscal Year 2014, it will be applied to examine the potential
	benefit the ecological health of the Western	impacts and future groundwater withdraws from the surficial aquifer system.
	Everglades, Although the modeling for CEPP has	
	considered the Seminole Tribe's entitlement to	The Corps received and considered the Seminole Tribe's request for sending water
	water, it has not considered the Seminole Tribe's	water, it has not considered the Seminole Tribe's from Lake Okeechobee to the Big Cypress Reservation. It was determined that not
	restoration needs for the Western Everglades area	enough information existed at this point to determine impacts of such action both
	and the Tribe's potential ability to store excess	and the Tribe's potential ability to store excess upstream and downstream of the Big Cypress Reservation. The Seminole Tribe of

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	water from Lake Okeechobee. The Seminole Tribe requests further modeling so the Seminole Tribe,	Florida presented their concerns to the multi-agency South Florida Ecosystem Restoration Task Force, headed by the Department of the Interior. The Task Force
	the USACE and the SFWMD can better understand	convened a special sub-group specifically to identify existing data from all available
	the quality and quantity of any water that might be delivered to determine if such a delivery would be	agencies and determine the next steps to achieving the Iribe's request. The sixth meeting of the Restoration of the Western Everglades Natural System team was
	mutually beneficial.	scheduled for 16 JAN 2014, but had to be rescheduled. Efforts are being made to
Seminole-15	The purpose of the District Engineer's	address the Sellificial Tribe's request that Could flot be first within this Privitia. Please refer to Corps response to no. Seminole-06.
	mmendations in a	-
	necessary agreements with federal, state, Tribal	To clarify, the Corps is currently drafting a policy guidance memorandum to update
	and local governments. However, the current PIR	and expand the 2008 CERP Policy on Human Remains to apply to all Civil Works and
	does not include the development of the	Regulatory actions within the respective jurisdiction of these Jacksonville District
	Jacksonville District Human Remains Policy, which	programs in the State of Florida. This document is an internal guidance
	will govern the CEPP project. We therefore request	memorandum designed to consolidate and clarify existing Corps documents
	the following language be added to Section 8, the	regarding the treatment of human remains pursuant to Section 106 of the National
	District Engineer's Recommendations: "The USACE	Historic Preservation Act (NHPA) and the Jacksonville District's Federal Trust
	is in the process of entering into a binding	Responsibilities for the state of Florida. As an internal policy guidance memorandum,
	agreement with the Seminole Tribe of Florida and	the document will not require signatures by partnering agencies and/or the Tribes
	the Miccosukee Tribe of Indians of Florida setting	and will, therefore, not serve as an agreement.
	forth protocols for the appropriate treatment of	
	burial resources throughout the Jacksonville	
	District pursuant to the Federal Trust Responsibility	
	and Section 106 of the National Historic	
	Preservation Act. The USACE shall enter into this	
	binding agreement and it will govern the treatment	
	of burial resources that are culturally /religiously	
	significant to the participating tribal governments."	
Seminole-16	The CEPP Area of Potential Effects ("APE")	The Corps acknowledges that there are areas throughout Florida that hold significant
	archaeological sites, including numerous burial	curtains/ lengious importained to the certifician Hibe of Horida.
	sites. It is suspected that there are many more sites	'Unmitigated' effects described in the PIR/EIS began in the late 1800's. Today, there
	that have not yet been discovered. These sites	are laws and regulations in place to prevent this type of action.
	(known and unknown), especially the burial sites,	
	hold significant cultural/religious importance to the	The Corps has committed to treating sites containing human remains in a culturally
	Seminole Tribe. The tree island landscape, which	sensitive manner. As such, the following language will be added to Section 2.6 Native
	usually hosts these sites, form the fabric of the	Americans: The Corps is currently drafting a policy guidance memorandum to update
	Seminole Tribe's cultural identity.	and expand the 2008 CERP Policy on Human Remains to apply to all Civil Works and

Appendix C.3

COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	As the PIR/EIS acknowledges, there have been	Regulatory actions within the respective jurisdiction of these Jacksonville District programs in the State of Florida. This document is an internal guidance
	decades of unmitigated impacts to tribal cultural resources due to water control projects. The	memorandum designed to consolidate and clarify existing Corps documents regarding the treatment of human remains pursuant to Section 106 of the National
	Seminole Tribe is encouraged by the commitments	Historic Preservation Act (NHPA) and the Jacksonville District's Federal Trust
	made by the USACE during the consultation process to move forward with treating these sites	Responsibilities for programs in the state of Florida.
	in a culturally sensitive manner. We respectfully	
	request the PIR/EIS be amended to reflect those	
	significant efforts to be a partner in Everglades	
	restoration, including CEPP.	
Seminole-17	The Seminole Tribe is also encouraged by the	Thank you for your comment.
	f restoring historic w	
	levels/hydrological patterns and	
	restoring/preserving tree islands and ridge/slough	
	systems. Appropriately designing the CEPP project	
	to achieve and monitor these goals will enhance	
	the protection of cultural sites within the APE.	
	Generally, most cultural sites are located on tree	
	islands. Various studies have been conducted	
	noting the significant impacts water control	
	projects have had on tree islands (for example:	
	http://www.sfwmd.gov/portal/pa~e/portai/PG	
	GRP SFWMD WATERSHED/Tree Island	
	Research413?project=1338&ou=440:	
	http://www.sfwmd.gov/portal/page/portai/PG	
	GRP SFWMD WATERSHED/WCA Historical Tree	
	438?project=1354&ou=440). We are encouraged	
	that the USACE is committed to restoring and	
	preserving these environmentally and culturally	
	significant resources.	

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	COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
consultation process, the Sentiment or Byotenment consultation process, the Sentimole Tribe raised a significant concern about the USACE relying on insufficient data (unknowns) concerning cultural resources and impacts. The Seminole Tribe's comments were based on the concern that the lack of cultural resource data and potential errors in hydrological modeling could result in unintended impacts to burial resources. The USACE acknowledged the Seminole Tribe's concerns and a mutual commitment was made that the Jacksonville District Human Remains Policy (currently in development) would serve as the mechanism to address treatment of burial resources within the CEPP APE. This Policy would be formalized as a binding agreement between the USACE and the participating tribal governments. In essence, the Human Remains Policy would be formalized as a binding agreement between the USACE and the participating tribal governments. In essence, the Human Remains Policy would be sources under both Federal Trust Responsibility and Section 106 of the National Historic Preservation Act and (2) to be the basis for an adaptive management plan for cultural resources if unintended impacts occurred. The purpose of the District Engineer's Recommendations in any PIR is to set forth all the necessary agreements with federal, state, Tribal and local governments, However, the current PIR does not include the development of the Jacksonville District Human Remains Policy, which will govern the CEPP project. We therefore request the following language be added to Section 8, the District Engineer's Recommendations: "The USACE is in the process of entering into a binding agreement with the Seminole Tribe of Indians of Fiorida and the Miccosukee Tribe of Indians of Fiorida and the Miccosukee Tribe of Indians of Fiorida actting forth protocols for the abpropriate treatment of	Coming 19	4	As constituted as for the current fearthillte etide and as required under 25 CED 900
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significant concern about the USACE relying on insufficient data (unknowns) concerning cultural resources and impacts. The Seminole Tribe's comments were based on the concern that the lack of cultural resources and a potential errors in hydrological modeling could result in unintended impacts to burial resources. The USACE acknowledged the Seminole Tribe's concerns and a mutual commitment was made that the Jacksonville District Human Remains Policy (currently in development) would serve as the mechanism to address treatment of burial resources within the CEPP APE. This Policy would be formalized as a binding agreement Evewent buried be formalized as a binding agreement Responsibility and Section 106 of the National Historic Preservation Act and (2) to be the basis for an alegal agreement and section 106 of the National Historic Preservation Act and (2) to be the basis for an adaptive management plan for cultural resources if unintended impacts occurred. The purpose of the District Engineer's Recommendations in any PIR is to set forth all the necessary agreements with federal, state, Tribal and local governments. However, the current PIR does not include the development of the bistrict Engineer's Recommendations: "The USACE is in the process of entering into a binding agreement with the Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida and the Miccosukee Tribe of Indians of Florida and the Miccosukee Tribe of Indians of Florida and the Miccosukee Tribe of Indians of Florida setting forth protocols for the abroporlate treatment of		consultation process, the Seminole Tribe raised a	and ER 1105-2-100, a sample survey within WCA 3 was determined adequate to meet
resources and impacts. The Seminole Tribe's comments were based on the concern that the lack of cultural resource data and potential errors in hydrological modeling could result in unintended impacts to burial resources. The USACE acknowledged the Seminole Tribe's concerns and a mutual commitment was made that the lacksonville District Human Remains Policy (currently in development) would serve as the mechanism to address treatment of burial resources within the CEPP APE. This Policy would be formalized as a binding agreement between the USACE and the participating tribal governments. In essurce, the Human Remains Policy would serve as a legal agreement (1) to resolve impacts to burial resources under both Federal Trust Responsibility and Section 106 of the National Historic Preservation Act and (2) to be the basis for an adaptive management plan for cultural resources if unintended impacts occurred. The purpose of the District Engineer's Recommendations in any PIR is to set forth all the necessary agreements with federal, state, Tribal and local governments. However, the current PIR does not include the development of the Jacksonville District Human Remains Policy, which will govern the CEPP project. We therefore request the following language be added to Section 8, the District Engineer's Recommendations: "The USACE is in the process of entering into a binding agreement with the Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida and the Miccosukee Tribe of Indians of Florida actting forth protocols for the abordonidae terafment of		significant concern about the USACE relying on	NEPA and NHPA compliance. Please see Appendix C.5, Table C.5.2.1 for specific dates
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resources within the CEPP APE. This Policy would be formalized as a binding agreement between the USACE and the participating tribal governments. In essence, the Human Remains Policy would serve as a legal agreement: (1) to resolve impacts to burial resources under both Federal Trust Responsibility and Section 106 of the National Historic Preservation Act and (2) to be the basis for an adaptive management plan for cultural resources if unintended impacts occurred. The purpose of the District Engineer's Recommendations in any PIR is to set forth all the necessary agreements with federal, state, Tribal and local governments. However, the current PIR does not include the development of the Jacksonville District Human Remains Policy, which will govern the CEPP project. We therefore request the following language be added to Section 8, the District Engineer's Recommendations: The USACE is in the process of entering into a binding agreement with the Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida and the Miccosukee Tribe of Indians of Florida asetting forth protocols for the abroporiate treatment of		mechanism to address treatment of burial	partnering agencies and/or the Tribes and will, therefore, not serve as an agreement.
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	burial resources throughout the Jacksonville District pursuant to the Federal Trust Responsibility	
	and Section LUb of the National Historic Preservation Act. The USACE shall enter into this	
	binding agreement and it will govern the treatment	
	of burial resources that are culturally /religiously	
Seminole-20	The PIR/EIS repeatedly states that the project is in	While the Corps is currently in compliance with the procedural requirements
	compliance with the National Historic Preservation	concerning the NHPA, the Corps recognizes that additional consultation and other
	ACT ("NHPA"); however, the USACE does not state	actions are not yet complete, but will be so prior to construction. This phased
	how it is in compliance. It is important to note that	approach was consulted on and agreed to during consultation. Please see Appendix
	the Advisory Council on Historic Preservation's	C.5, Table C.5.2.1.
	regulations and case law is clear that Section 106, NHDA is not catisfied when an agreement to	This DIB/FIS moots NEDA raquiromants for a foasibility etudy for cultural rasources. As
	resolve adverse impacts is not finalized before	stated in the draft PIR/EIS Appendix C.2.1.17 and C.2.2.17, Section 106 consultation
	completion of the National Environmental Policy	for CEPP will not be completed at the time of the PIR/EIS . ER1105-2-100 and 36 CFR
	Act documentations or before the Record of	800, including Section 106, requirements will be completed prior to construction.
	Decision. We understand that the USACE is in the	Language located in the above referenced Appendices will be reflected in Section
	process of developing a human remains policy that	5.1.16 and 5.2.16 for clarification and consistency. Text will read, "This PIR/EIS meets
	would resolve, pursuant to the Trust Responsibility	cultural resources requirements as specified under NEPA. The CEPP will remain in
	and Section 106, impacts to burial resources. These	compliance with the NHPA pre and post construction. See Appendix C.5."
	burial resources may also be Section 106	
	properties in addition to being trust resources. We	See comment/response no. Seminole-04 for information regarding burial resources.
	also understand that the USACE is in the process of	
	completing studies pursuant to the Environmental	
	Restoration Transitional Plan Programmatic	
	Agreement in order to assess Section 106 impacts	
	resulting from water control projects.	
Seminole-21	However, at some point the USACE will need to develon a legally hinding agreement to address	The proposed human remains policy guidance memorandum is not intended to caticfy, the requirements for sorrements required under the implementing
	Section 106 impacts that are not covered by the	regulations of Section 106.
	human remains policy.	
		As each phase of the project is implemented, any MOA's required will be developed during the Pre-Construction. Engineering and Design Phase as stated in Appendix
		C.2.1.17 and C.2.2.17. See Corps Response No. Seminole-20.
		Additional Jansuage will be added to the document to clarifying that through
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		consultation, the phased approach listed above would be used for CEPP. This was agreed to by SHPO (1-30-2012 personal communication, Laura Kammerer, DSHPO; 6-25-2012 Email, Laura Kammerer, DSHPO) and the Tribes (2/28/2012 face to face meeting, Willard Steel, THPO and 1-20-2012 face to face meeting, Fred Dayhoff, Miccosukee Tribe CR Representative).
		Also, see response no. Seminole-30 for clarifying information.
Seminole-22	Until such time as the human remains policy and the Section 106 agreement are finalized, the USACE is in process of complying with the NHPA but is not yet in compliance.	While the corps is currently in compliance with the procedural requirements of the NHPA, the corps recognizes that additional consultation and other requirements are not yet complete, but the project will be in full compliance prior to construction. See Corps response on. Seminole-04 for information regarding burial resources.
Seminole-23	The Seminole Tribe is hopeful that the USACE will continue to honor its commitment to develop the human remains policy.	The Corps has acknowledged the commitment of developing this guidance memorandum through correspondence letters. See Appendix C.5.4
Seminole-24	The USACE acknowledges that compliance has not yet been achieved on page C.2.2-121 of Appendix C but erroneously provides it is in compliance in other sections. The acknowledgement that compliance is not yet achieved but ongoing should be consistently stated throughout the document.	The following language will be added throughout the document where necessary: "While the corps is currently in compliance with the procedural requirements of the NHPA, the corps recognizes that additional consultation and other requirements are not yet complete, but the project will be in full compliance prior to construction."
Seminole-25	The USACE outlines its assessment of direct and cumulative impacts to cultural resources both in the Main Report and in Appendix C. The Seminole Tribe is concerned that this evaluation does not reference avoidance and minimization efforts and implies that only mitigation (excavation of resources) will occur. In Sections 5.1.16 and 63.3 of the Main Report, the USACE simply notes that direct and cumulative impacts to cultural resources will be adverse and significant and that mitigation absolutely no mention of the USACE undertaking avoidance or minimization efforts. The same is true in Sections C.2.1.17, C.2.2.17, and C.2.2.19 Table.2.2-16 (Appendix C); the PIR/EIS does not provide any direct or cumulative impacts or minimization of direct or cumulative impacts or	The USACE outlines its assessment of direct and considered for potential mitigation. The Wain Report and in Appendix C. The Seminole The following language will be added to Section 5.116, 5.2.16, and Appendices Tribe is concerned that this evaluation does not c.2.1.17, and c.2.2.17 for clarification: "Pursuant to 36 CFR 800.1 where possible the reference avoidance and minimization efforts and project design will be modified to avoid impacting significant historic properties and minimization efforts and consultation with spirity and court. In Sections 5.1.16 and 6.3.3 measures will be considered, which could include but are not limited to data recovery of the Main Report, the USACE simply notes that each other mitigation measures will be developed in consultation with SHPO, direct and cumulative impacts to cultural resources will be considered which could include but are not limited to adar recovery will be adverse and significant and that mitigation for Section 106 of the National Historic Preservation Act (36 CFR 800). Assolutely no mention of the USACE undertaking language in 6.3.3 of the main report will not be modified. For clarification, ER 1105-2-10 avoidance or minimization of avoidance or avoidance or direct or cumulative impacts to cultural resources. Broad and the USACE undertaking language in 6.3.3 of the main report will not be modified. For clarification, ER 1105-2-10 avoidance or minimization of avoidance or minimization of direct or cumulative impacts to During consultation, the Corps revealed ongoing internal discussions regarding efforts.

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	cultural resources. Conversely, the USACE specifically provides it will undertake efforts to avoid, minimize and mitigate environmental impacts. Based on the exclusion of avoidance and minimization with regard to cultural resources, the Seminole Tribe is concerned that the USACE is not planning on considering or pursuing such measures. Such an approach is inconsistent with both the Federal Trust Responsibility and the NHPA.	to avoid or minimize effects to cultural resources. Also, throughout the document, for numerous features, the Corps identified 'Avoidance' as potential mitigation under NEPA. For examples, please see Appendix C.2.2.17.10, C.2.2.17.11, C.2.2.17.12, etc. Language will be added were applicable to read. Avoidance of adverse effects to cultural resources is the Corps preference, therefore, throughout the planning process for CEPP, the archaeologist and engineers have worked closely to determine alternatives and features of alternatives that reduce or eliminate impacts to cultural resources.
Seminole-26	We respectfully request that the assessment of impacts include a discussion on avoidance and minimization. Further, it appears the assessment of impacts was only evaluated under the NHPA. It is important that the PIR/EIS evaluate impacts pursuant to the Federal Trust Responsibility as well. The federal government's trust obligation is more than just formal consultation and requires consideration and	Thank you for your comment. Language will be adjusted where necessary. Please see Corps response to comment no. Seminole-25. There are no quantifiable metrics against which to conduct an analysis of impacts under the Federal trust responsibility. The comerstone of the Federal trust responsibility is consultation and collaboration with Tribes affected by Federal actions. As the Seminole Tribe of Florida has acknowledged, early and thorough coordination with the Seminole Tribe of Florida was accomplished in connection with
Seminole-28	The Department of Defense's American Indian Policy provides for enhancing tribal capabilities to "effectively protect and manage natural and cultural tribal trust resources whenever [Department of Defense] acts to carry out a program that may have the potential to significantly affect those tribal trust resources." By memorandum dated February 18, 1998, the USACE announced six basic tribal policy principles that must guide the USACE decision-making when actions may affect tribes and trust resources: (1) tribal sovereignty; (2) trust responsibility; (3) government to government relations; (4) predecisional and honest consultation; (5) self-reliance, capacity building and growth; and (6) matural and cultural resources.	should be conducted in connection with this PIR/EIS. Please see Corps response to comment Seminole-27.
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	preserve and protect trust resources" whereby trust resources include cultural resources. See Memorandum for Commands. Major Subordinate Commands, and District Commands, dated February 18, 1998. In doing so, the USACE "will reach outto involve Tribes in collaborative processes designed to ensure information exchange, consideration of disparate viewpoints before and during decision making, and utilize fair and impartial dispute resolution mechanisms." Jd. Therefore, the USACE owes the Seminole Tribe the obligation to preserve and protect the cultural	
	resources within CEPP in addition to its obligations under the NHPA (NHPA does not supersede the Trust Responsibility). The Seminole Tribe respectfully requests the PIR/EIS include an	
	evaluation of the impacts pursuant to the Trust Responsibility.	
Seminole-29	Finally, the assessment of impacts is completely void of any discussion of the Jacksonville District	Language will be added to reflect that the Corps is currently drafting a policy guidance memorandum to update and expand the 2008 CERP Policy on Human
	Human Remains Policy, which will govern both the treatment of impacts to hirial resources and set	Remains to apply to all Civil Works and Regulatory actions within the respective intriction of these Jacksonville District moreans in the state of Borida. This
	forth how impacts to such resources will be	document is an internal guidance memorandum designed to consolidate and clarify
	assessed. This agreement will be critical to the assessment and treatment of impacts to burial	existing Lorps documents regarding the treatment of human remains pursuant to Section 106 of the NHPA and the Jacksonville District's Federal Trust Responsibilities
	resources and should be included in the discussion	for the state of Florida. Also see Corps response no. Seminole-04 concerning burial
Seminole-30	The ERTP APE overlaps with the CEPP APE.	The ERTP Human Remains Policy is an internal Corps policy document but is
	Throughout the PIR/EIS the USACE references	enforceable through its incorporation into the ERTP Programmatic Agreement (PA), which is a hinding agreement (PA).
	Programmatic Agreement. The ERTP Programmatic	Everglades National Park (ENP), the Advisory Council on Historic Preservation (ACHP),
	Agreement also provides that treatment of burial	South Florida Water Management District (District), and the State Historic
	resources will be conducted consistent with the	Preservation Officer (5HPO) The ERTP PA, however, only governs effects to HR
	ERTP Human Remains Policy, which is a binding	resulting from ERTP operations and does not apply to other, non-ERTP actions
	agreement between the coace and the beninning Tribe (along with other state and federal parties).	Occurring within the CNTP AFE, Therefore, the CEPP Plyecus not guided by the CNTP Human Remains Policy, and reference to it would be inappropriate in this context.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Until such time as the Jacksonville District Human	The APE for CEPP, however, falls within the geographic boundaries governed by the
	Remains Policy is formalized, the ERTP Human	2008 Human Remains Policy for CERP, which remains valid and active. The 2008
	Remains Policy remains the governing document	Human Remains Policy will be added to Appendix C.5 for reference.
	for resolution of impacts to burial resources within	
	the ERTP APE. The PIR/EIS should be revised to	
	include the ERTP Human Remains Policy in the	
	discussion of existing conditions/present actions	
	and assessment of impacts.	
Seminole-31	The Seminole Tribe appreciates the USACE's early	The Corps takes is trust responsibilities seriously and concurs that the requirement to
	consultation efforts concerning cultural resources.	engage in government-to-government consultation is the cornerstone of the Federal
	This approach has helped create a mutual	trust responsibility, which creates obligations in addition to NHPA requirements.
	understanding and hopefully will help avoid future	
	conflicts regarding cultural resources. We hope	
	that the USACE will duplicate this approach for	
	future projects. The Seminole Tribe does want to	
	point out that the CEPP consultation process	
	concerning cultural resources was not just	
	conducted pursuant to the NHPA. The cornerstone	
	of the federal government's relationship with	
	Indian Country is the Federal Trust Responsibility. It	
	is a special fiduciary obligation that carries with it	
	the duty to act "with good faith and utter loyalty to	
	the best interests" of federally recognized Indian	
	Tribes such as the Seminole Tribe. The principal	
	component of a federal agency's fiduciary trust	
	obligation to Indian Tribes is the duty to formally	
	consult with Indian Tribes (government-to-	
	government) on actions that may impact their	
	interests including historic properties. Although the	
	NHPA includes a specific requirement for federal	
	agencies to consult with Indian Tribes during the	
	Section 106 review process, th1! duty to conduct	
	government-to-government consultation is	
	primarily a Trust obligation mandating federal	
	agencies to act in a fiduciary capacity. In short, the	
	NHPA requirements do not supersede the Federal	
	Trust Responsibility.	
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Seminole-32	As noted earlier, at this point there are more unknowns about cultural resources within the APE than there are known data. In part, this is due to the archaeological surveys being done during a very wet period which prevented the USACE contracted archaeologists from completing sufficient surveys. Less than one percent of the APE was selected for survey and out of that sample size only a few sites were dry enough to partially test.	The methodology and level of effort used for all cultural resources surveys for CEPP were vetted through the SHPO and both Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida prior to contract execution. Any suggestions/changes brought forward during consultation meeting efforts were addressed during that time. The information gathered during the CEPP cultural resources investigations provided enough information to address specific questions for a feasibility level PIR/EIS. As described in Appendix C.2.1.17 and C.2.2.17 of the PIR/EIS, areas within the APE in properties, have been identified. The Corps concurs with the Seminole Tribe of Florida in that cultural resources surveys within wetland environments be conducted within the dry months of the year, whenever possible.
Seminole 33	It is important to note that despite the self imposed limitations, the surveys discovered culturally significant material including burial resources at a high percentage rate. Therefore, it is highly likely that there are numerous unknown cultural sites within the APE. As the project moves forward, we respectfully request the USACE conduct more survey work during dry periods.	Please see Corps response no. Seminole-32. As described in Appendix C.2.1.17 and C.2.2.17 of the PIR/EIS, areas within the APE in need of further cultural resources fieldwork, including identification of historic properties, have been identified. A portion of the APE is state owned and/or managed. Once CEPP is authorized and funding is allocated, the APE will once again fall under the Corps' purview for Section 106. If the state has not adequately conducted an inventory of specific areas listed in the PIR/EIS pursuant to F.S. 267.061, the Corps will revisit the level of effort needed at that time. Also, another large portion of the APE lies within National Park Service lands. The Corps concurs with the Seminole Tribe of Florida in that cultural resources surveys within wetland environments be conducted within the dry months of the year, whenever possible. Previous survey efforts within the Everglades National Park will be reviewed in consultation with the National Park Service, SHPO, and both Seminole Tribe of Florida and the Miccosuke Tribe of Indians of Florida to determine if additional work is needed, particularly directly south of the proposed flowway.
Seminole-34	We are also confident that if the USACE protects and restores the tree islands within the APE, that the likelihood of unintended impacts will be greatly lessened. However, sufficient monitoring will be	The Corps concurs that archaeological monitoring could potentially be done in conjunction with monitoring tree islands (i.e. vegetation). Please see comment/response no. Seminole-35.

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	necessary to determine impacts and to appropriately identify sites. The PIR/EIS is currently void of any discussion regarding archaeological monitoring. The Seminole Tribe suspects that archaeological monitoring can be done in conjunction with monitoring tree islands if the right protocols are developed.	
Seminole-35	We respectfully request that the PI R/EIS be revised to note the limitations of the cultural resource date, link the protection and restoration of tree islands to the preservation of cultural resources, and include the commitment to develop archaeological monitoring protocols.	The Corps will add language to the PIR/EIS under Appendix C.1 Existing and Future Without Project Conditions to say that, "All lands within WCA 3 and EAA A-2 are state ouwned and/or managed, therefore land management responsibilities including countral resources inventories within those lands should be conducted as described in E.S. 267.061(2) and management plans developed in consultation with the Florida Division of Historic Resources. See Appendix G in "A Conceptual Management Plan for The Everglades Complex of Wildlife Management Areas" at http://mcv.com/conservation/terrestrial/management-plans/online-mps/. Cultural Resources within National Park Service lands will be managed in accordance federal laws and pre-established management plans for cultural resources under National Park Service jurisdiction.
		The protection and restoration of tree islands linked to preservation of cultural resources is identified in Appendix C.2.2.20 Past, Present, and Reasonably Foreseable Actions Affecting Resources within the Project Area; Table C.2.2-15; Cultural Resources. "Continued improvements to hydroperiods and sheetflow within WCA 3A, 3B and ENP could reduce soil oxidation, which could stabilize the environment, and this in turn could stabilize tree islands containing cultural resources."
		As previously consulted on, it is the Corps' determination that the Section 106 consultation process will allow for continued coordination and the development of legally binding documentation to address changes to historic properties caused by the CEPP, such as Memorandums of Agreement or Memorandums of Understanding, if warranted as the plan design, construction and operations are refined. See Appendix C.5 USACE to Seminole Tribe of Florida letter dated July 19, 2013.
		Also, many features (e.g. L-67 Ext., L-67A, and L-67C) discussed within C.2.1.17 and C.2.2.17 recommend monitoring during construction when there is "activity within historic tree island footprints to ensure that any discovery is recorded". The word

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		'inadvertent' will be added,
Seminole-36	The Seminole Tribe appreciates that the USACE included a section concerning the existing	Thank you for your comment and clarification.
	conditions of the Native Americans. However, it is	The Corps was unaware that the Seminole Tribe of Florida's Ah-Tah-Thi-Ki website
	important to note that it may not be appropriate to	should not be considered as a primary source. During consultation with the Seminole
	rely on the Seminole Tribe's website or its Museum	Tribe of Florida on March 20, 2012, the Corps requested language from THPO to
	website as the source for this section. The	include in the Native American sections of the PIR/EIS. Tribal representatives
	Seminole Tribe's website serves several functions	declined, preferring to review text provided in the PIR/EIS and then consider
	which include advertising for is commercial	providing comments and/or references that could be used as a source of information.
	activities. It would be more appropriate to consult with the tribal governments in the development of	To better represent the Seminole Tribe of Florida, the Corps respectfully requests that you provide chapter of the CEDD
	this section versus taking information from	PIR/EIS and/or applicable references so that future documents produced by the Corps
	websites. Also, the Seminole Tribe's websites are	can better reflect your culture.
	not intended to represent the history or culture of	On July 16, 2013 the Corps received informal comments on the draft PIR from Tribal
	the Miccosukee Tribe of Indians.	representatives and addressed those comments (see comments/response to
		Seminole-41 to 59) and those changes were reflected prior to release of the
		document for public review.
		Aso prior to public release a representative for the Microsukee Tribe of Indians of
		Florida suggested changes to the PIR/EIS Native American sections, which included
		removing all information obtained from an ethnographic study conducted by Dr.
		James Goss titled, "Usual and Customary Use and Occupancy by the Miccosukee and
		Seminole Indians in Big Cypress National Preserve". All proposed changes were made
		to the document prior to releasing for public review.
Seminole-37	Finally, the section is entitled "Existing Conditions	For clarification, the language quoted in the comment is in reference to "Existing
	of Native Americans;" however, the only language	Conditions of Native Americans" in Appendix C.1.2. For more information pertaining
	concerning the existing conditions is one sentence:	to existing conditions of Native Americans, please refer to the main document;
	"Today most Tribal members live within the	Section 2.6 Native Americans section.
	confines of their reservations located in South	
	Florida." All of the other language summarizes the	Also, please review Corps response no. Seminole-36 for further information.
	Seminole Tribe's history and does not provide any	
	information about the Tribe's existing conditions.	The Corps acknowledges the importance and necessity to engage in meaningful
		consultation with all interested groups in hopes of promoting a deeper
	We therefore respectfully request the USACE	understanding.
	consult with both Tribes and the Independent	
	Native Americans living in the area to more	
	accurately detail the existing conditions for Native	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Americans,	
Seminole-38	In Section 7 of the Main Report, the USACE discusses how the project is in compliance with various legal obligations. While this section discusses compliance with cultural resource related federal statutes and orders, it is void of any discussion on compliance with the Federal Trust Responsibility. The Federal Trust Responsibility, The Federal Trust Responsibility is a legal obligation that requires the USACE's compliance. Therefore, we respectfully request the USACE include a discussion on compliance with the Trust Responsibility regarding cultural resources and environmental resources.	Section 7, Table 7-1 under E.O. 13175 Consultation and Coordination with Indian Tribal Governments, additional language will be added to include: "Pursuant to E.O. 13175, the USACE developed the November 01, 2012 Tribal Consultation Policy Memorandum, which dictates Federal responsibilities, including Trust Responsibilities, to federally recognized Indian Tribes."
Seminole-39	The PIR/EIS does not provide any estimate on the cost of identifying, evaluating and treating cultural resources.	Cost for cultural resource can be found in Table 6.4 Restoration Cost Estimates (2015 Price Level) under line item titled "18 Cultural Resources Preservation".
Seminole-40	Cost is briefly mentioned in a memorandum for the record that is included in the PIR/EIS. The Seminole Triba requests that the USACE consult with its Tribal Historic Preservation Office on the appropriate cost estimates for cultural resources and that funding for cultural resources (under NHPA and Trust Responsibility) be a specific line item budget for the project.	Funding is an internal mechanism and is not a part of requirements specified by the 36 CFR 800. Engineering Regulations or Policy. Section 6, Table 6.4 Restoration Cost Estimates (2015 Price Level) was provided to THPO on 9/19/2013 via FTP website and was downloaded by a member of the THPO staff on 9/23/2013. The provided information contained the cost estimate for cultural resources under line item titled "18 Cultural Resources Preservation".
Seminole-41	Letter Enclosure: Appendix B. April 2013 Draft PIR Section 8, Page 5. We recommend a more holistic analysis of A-1 FEB, CEPP and non CEPP projects that CEPP features are dependent on to ensure that CEPP reaches its full functional potential.	The CEPP planning effort did conduct holistic analysis of all non-CEPP projects, which CEPP would depend on to reach full potential. Summary and explanation of these dependencies is provided in Section 6.7.1.
Seminole-42	We are aware that the Corps' Engineering Regulations provide for the cost of "data recovery" for the Federal sponsor to be no more than 1 o/o of the total project cost. We believe that is a fair cost estimate for data recovery. We are also aware	For clarification, Engineering Regulation 1105-2-100 Appendix C-4 Cultural Resources, para. d(6)(c) states that the cost of data recovery can extend beyond the one percent cap of the total estimated Federal appropriation required for construction of a project, however, a waiver request would need to be submitted (and approved) as specified in Section 208 of the National Historic Preservation Act as Amended.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	activities are not	Once the CEPP is authorized by Congress and funds are appropriated, the Corps will
	recovery:" (1) measures for avoidance,	continue Section 106 consultation with all interested parties to determine what
	minimization and mitigation; and (2) activities to	additional cultural resources activities are needed to meet compliance.
	survey, test and evaluate archeological resources.	
	We request further consultation with the Corps to	
	determine what would be a reasonable cost	
	estimate for the activities and measures that are	
	not considered "data recovery."	
Seminole-43	Letter Enclosure: Appendix B. Email dated	The CEPP modeling and evaluations did include assessment of effects to areas
	Tuesday, July 16, 2013	adjacent to WCA-3A which were shared and discussed with the representatives for
		the Seminole Tribe of Indians. The CEPP plan does not import additional water into
	The Seminole remains supportive of the	the Big Cypress Reservation, Preserve and Additional Lands and our current modeling
	restoration of the Everglades, including the Central	tools were not capable of adequately assessing importing additional water into the
	and Western Everglades, of which it is a part. The	Reservation from Lake Okeechobee that Seminole Tribe requested.
	Tribe's remaining concerns regarding CEPP center	
	largely on the Corps' inability to anticipate impacts,	
	positive or negative to the Big Cypress Reservation,	
	Preserve and Additional lands. The failure to fully	
	assess the impacts to the Western Basins and	
	incorporate benefits for this area into the CEPP	
	planning process continues to be an issue. This	
	inability to model or analyze the Western Basins in	
	connection with CEPP is a fundamental flaw.	
Seminole-44	Letter Enclosure: Appendix B. Email dated	Section 5.3.2 of the PIR has been updated to include a description of the western
	Tuesday, July 16, 2013	basins and discussion of the Tribe's request for CEPP to consider opportunities to re-
		direct water from Lake Okeechobee to the western basins for the purposes of
	We are disappointed to see that the PIR does not	restoring natural areas within the Seminole Big Cypress Reservation and the adjacent
	include any substantive analysis regarding	Big Cypress Natural Preserve. The CEPP plan does not import additional water into
	supplemental water for restoration of tribal natural	the Big Cypress Reservation, Preserve and Additional Lands and our current modeling
	resources and protection of the Tribe's customary	tools were not capable of adequately assessing importing additional water into the
	usage rights. We believe that the PIR should have	Reservation from Lake Okeechobee that Seminole Tribe requested.
	discussed in detail, the Tribe's environmental	
	water request. We recommend that the PIR	
	consider development of alternatives which would	
	directly supplemental water to the Big Cypress	
	Seminole Indian Reservation and the Big Cypress	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	National Preserve and Addition Lands. This is	
	particularly relevant as the Tribe is the local	
	sponsor for a Critical Project in the Western Basins	
	bring	
	restoration of wetlands on Big Cypress	
	Reservation, Big Cypress National preserve and	
	Addition Lands, There are greater restoration	
	benefits that could be realized by looking at a	
	larger restoration landscape that are being lost by	
	the segmentation of CEPP. At a minimum, the	
	Corps should consider how CEPP and the Tribe's	
	Critical Project could be analyzed in a more holistic	
	manner to better accomplish the environmental	
	goals of CEPP.	
Seminole-45	Letter Enclosure: Appendix B. May 2013 Draft PIR	Customary usage rights are included in Section 2.6 Native Americans of the PIR.
	Section 2, Page 18. The Seminole Tribe has	
	customary usage rights in WCA3A, the Big Cypress	
	Preserve and addition lands. We recommend	
	adding language to address these rights and	
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	under the cristian and mithaut analysis	
	uliuel tile existilig alla without alialysis.	
Seminole-46	Letter Enclosure: Appendix B. July 2013 Draft PIR	Section 5.3.2 of the PIR has been updated to include a description of the western hashs and discussion of the Tribe's request for CEPP to consider opportunities to re-
	Section 4. Page 21. Section 4.5.2 Additional	direct water from Lake Okeechobee to the western basins for the purposes of
	opportunities should be listed. This will help PDT	restoring natural areas within the Seminole Big Cypress Reservation and the adjacent
	members understand stakeholders can help work	Big Cypress Natural Preserve.
	towards mutual goals. The modeling does not	
	demonstrate how the 4M infrastructure or the 3	
	modeling scenarios will impact the Tribe's water	
	needs for natural resources and customary usage.	
	The modeling should consider the impact on the	
	Tribe's BCR and western basins and better examine	
	how flood impacts will be dealt with in connection	
	with Lake Okeechoee releases.	
Seminole-47	Letter Enclosure: Appendix B. May 2013 Draft PIR	Section 5.3.2 of the PIR has been updated to include a description of the western
		basins and discussion of the Tribe's request for CEPP to consider opportunities to re-

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Section 4, Page 24. Section 4.5.3 The modeling has focused on the Tibe's entitlement to water but has not looked at the Tibe's ability to store excess waters released from Lake Okechobee and can assist with water storage resulting in additional environmental attributes but the Tribe needs to better understand the quantity and quality of the water that would be delivered.	direct water from Lake Okeechobee to the western basins for the purposes of restoring natural areas within the Seminole Big Cypress Reservation and the adjacent Big Cypress Natural Preserve.
Seminole-48	Letter Enclosure: Appendix B. July 2013 Draft PIR Section 6, Page 10. Section 6.1.2.3 The Tribe has customary usage rights that we should be acknowledged in this section.	The following language will be added: "Pursuant to a Settlement Agreement between the Seminole Tribe of Borded 29 October 1987, the Seminole Tribe of Florida transferred property, including what is now referred to as WCA-3A, to the SFWMD while retaining traditional hunting, fishing, trapping, and frogging rights within this property. These subsistence rights are also extended to lands perpetually leased to the Miccosukee Tribe of Indians of Florida also in areas within WCA-3A pursuant a Settlement Agreement between the Miccosukee Tribe of Indians of Florida and the State of Florida, afted 15 March, 1982. The Corps also acknowledges that this area continues to hold cultural significance to the both federally recognized Tribes.
Seminole-49	Letter Enclosure: Appendix B. July 2013 Draft PIR Section 6, Page 11. Section 6.1.6 The Tribe has customary usage rights which include activities such as hunting, fishing, frogging, etc. for areas such as WCA 3A, Big Cypress Preserve and addition lands.	The Corps acknowledges that, pursuant to a Settlement Agreement between the Seminole Tribe and the State of Florida, dated 29 October 1987, the Seminole Tribe of Florida transferred to roperty, including what is now referred to as WCA-3A, to the SFWMID while retaining traditional huntine, fishing, trapping, and frogging rights within this property. The Corps also acknowledges that this area continues to hold cultural significance to the Seminole Tribe. Language will be added to the PIR/EIS reflecting this acknowledgement in Section 6.1.2.3 (see response to comment no. Seminole-48), however, the intent of the figure 6-6 of section 6.1.6 is to discuss proposed new recreation facilities only.
Seminole-50	Letter Enclosure: Appendix B. July 2013 Draft PIR Section 6, Page 38. Section 6.5.2.16 Why [is the Native Americans section] removed? A Table that fully analyzes the impacts on the Tribe would be helpful.	The Native American section was relocated to Section 5.3 and expanded into other sections as needed
Seminole-51	Letter Enclosure: Appendix B. July 2013 Draft PIR Section 6, Table 6 Summary of Cumulative Effects, Page 48. Vegetation and Wetlands Future Actions - Could get [??] better benefits with incorp [?] of	The cumulative effects analysis mentions that that there are additional efforts underway by other Federal, State, and local agencies, as well as non-governmental organizations that are all working toward similar restoration goals. The Corps remains fully committed to ecosystem restoration and continued engagement with key partners and stakeholders. The Corps will continue to remain engaged with the

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	additional [??] water to STOF BCR C[??]. Proj.	Seminole Tribe of Florida and other Task Force member agencies in support of the restoration of the Big Cypress Seminole Reservation natural areas and adjacent portions of the Big Cypress National Preserve to identify and recommend opportunities to restore ecological conditions and support the designated uses of water bodies including wetlands within these areas. Vegetation and wetlands would be likely to improve with future restoration efforts within the study area as currently acknowledged with Section 6.3.3 (Cumulative Impacts) and Table 6-3 of the Draft PIR/EIS.
Seminole-52	Letter Enclosure: Appendix B. July 2013 Draft PIR Section 6, Table 6 Summary of Cumulative Effects, Page 49. The Tribe has the capacity to accommodate and store excess waters on its lands particularly in times of flooding. If the Corps would consider analyzing CEPP together with the broader restoration landscape these efficiencies could be recognized and the Tribe could be a partner in helping the prevent[tion of] fresh water being released to tide. [W]e believe modeling on these effici??] is essential.	Section 5.3.2 of the PIR has been updated to include a description of the western basins and discussion of the Tribe's request for CEPP to consider opportunities to redirect water from Lake Okeechobee to the western basins for the purposes of restoring natural areas within the Seminole Big Cypress Reservation and the adjacent Big Cypress Natural Preserve.
Seminole-53	Letter Enclosure: Appendix B. July 2013 Draft PIR Section 6, Page 53. Section 6.6 A more holistic approach to the greater res[??] landscape would allow for greater efficiencies in the system and better ensure that the projects functional value is fully realized. We also believe that the Corps should analyze and provide modeling on the projects impacts to the western basins.	The CEPP planning effort did conduct a holistic analysis of all non-CEPP projects, which CEPP would depend on to reach full potential. A summary and explanation of these dependencies is provided in Section 6.7. (Plan Implementation). Further detail on the structural and operational assumptions of how non-CEPP projects were represented in thy drologic model simulation of the FWO project condition can be found in Section 2.5. The CEPP modeling and evaluations did include assessment of effects to areas adjacent to WCA 3A which were shared and discussed with the representatives for the Seminole Title of Indians. The CEPP plan does not convey additional water into the Big Cypress Reservation, Preserve and Additional Lands.
Seminole-54	Appendix B. July 2013 Draft PIR Section 6, Page 54. Section 6.6.3 It is clear that CEPP is dependent on non CEPP projects. Accordingly, a more holistic analysis should be	The CEPP planning effort conducted a holistic analysis of all non-CEPP projects, which CEPP would depend on to reach its full potential. A summary and explaination of these dependencies is provided in Section 6.7. (Plan Implementation). Further detail on the structural and operational assumptions of how non-CEPP projects were represented in the hydrologic model simulation of the FWO project condition can be

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Appendix C.3

	utilized to better understand these dependant non	found in Section 2.5.
	CEPP projects that could result in unintended	
_	adverse consequences and inefficiencies in the	
	project.	
Seminole-55	Letter Enclosure: Appendix B. July 2013 Draft PIR	Section 5.3.2 of the PIR has been updated to include a description of the western
		basins and discussion of the Tribe's request for CEPP to consider opportunities to re-
	Section 6, Page 55. Section 6.6.3 #6 The Tribe has	direct water from Lake Okeechobee to the western basins for the purposes of
	capacity to receive water released from Lake	restoring natural areas within the Seminole Big Cypress Reservation and the adjacent
	Okeechobee and believes modeling on this issue is	Big Cypress Natural Preserve.
	critical. Please see overall notes regarding a more	
	holistic NEPA analysis for the dependency of CEPP	
	features. Also, we would recommend that Corps	
	consider efficiencies that could be created when	
	the Tribe's critical project is completed and how	
_	this could help from an availability of storage	
	perspective	
Seminole-56	Letter Enclosure: Appendix B. July 2013 Draft PIR	The referenced text was undated in the draft PIR and moved closer to the front of
		Section 6 for clarity. Section 6.1.4 of the PIR now more clearly states that adaptive
	Section 6 Page 56. Section 6.6.5 We believe that	management options listed in Section 6.1.4 will require additional NFPA analysis. If
	thorn management actions could require	figure manager above to implement these patient analysis a
	riiese iiigiigBeiiieiii graniis monia leddiie	incore ilialiagets citoose to illibiament diese obtions, applicable beliniting and
	additional NEPA analysis and that more noilsuc	coordination will be needed. The following text has been added to Section 5.1.4 to
	NEPA analysis of upstream and downstream flows	convey these points:
	is required.	
		"the CEPP AM Plan provides suggestions for potential improvements and
		refinements of aspects of CEPP if necessary, called Adaptive Management Options
		(AM Options). The suggestions are based on current experience and knowledge and
		are not required actions, nor are they meant to limit agencies from considering other
		options. All of the AM Options are considered part of the CEPP recommended plan
		for authorization, although some would require more information about project
		footprint and performance in order to perform a full NEPA analysis, permitting, and
		agency coordination before they could be initiated. The AM Options are included in
		the CEPP cost estimates and described here per WRDA 20007 USACE implementation
		guidance (August 2009). The AM Options are not automatic; they are informed
		suggestions provided as part of the CEPP recommended plan that capture current
		knowledge of what may needed in the future to adjust and maximize performance as
		CEPP progresses"

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Appendix C.3

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		In addition, with each option, wording such as the following example has been added: "If this AM action were to be employed, all necessary analysis and coordination would be completed prior to implementation of the action."
Seminole-57	Letter Enclosure: Appendix B. July 2013 Draft PIR	Thank you for your comment. The Project Assurances summary was provided in Section 6.8 of the CEPP draft PIR and the complete analysis is provided in Annex B.
	Section 6, Page 63. Section 6.7 [? Project Specific Assurances?] The Tribe will need an opportunity to analyze this modeling and provide additional	
	comments.	
Seminole-58	Letter Enclosure: Appendix B. July 2013 Draft PIR	The requested language has been added to Section 7.
	Section 7, Page 7, Please add Seminole Indian	
	Lands Claim Settlement Act of 1987 (25	
Of obstitute 2	1.44 - F L. A L. J. B. A J. 2013 B. B. B. B. B. B. B. B. B. B. B. B. B.	The CED below that a fellow of the state of
Seminore-59	Letter Enclosure: Appendix B. April 2013 Diait Pik	THE CEPP planning effort and conduct floilsuc analysis of all non-cepp projects, which CEPP would depend on to reach full potential. Summary and explanation of these
	Section 8, Page 5. We recommend a more holistic	dependencies is provided in Section 6.7.1.
	analysis of A-1 FEB, CEPP and non CEPP projects	
	that CEPP features are dependent on to ensure	
	that CEPP reaches its full functional potential.	
STATE - FLORIDA	STATE - FLORIDA STATE CLEARINGHOUSE	
FLORIDA DEPAR	FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES (FDACS)	FDAGS)
FDACS-1	As noted in the draft PIR/EIS, WRDA 2000 requires	The PIR/EIS identifies the features, cost and sequencing required to recommended a
	preparation of a PIR to implement components of	plan and seek Congressional Authorization to implement components of CERP. While
	the Comprehensive Everglades Restoration Plan	further analysis will be undertaken during the detailed plans and specifications phase
	(CERP). CEPP does not implement any CERP	(PED), these features are not conceptual in nature in that they will require future
	components; instead it provides a conceptual plan	congressional approval to deviate from the identified plan. A thorough plan
	for a suite of CEKP components, the CEKP	formulation screening and evaluation was conducted that analyzed hundreds of
	implemented for many years and likely under	Interest interest and interpolated inguity supmissionated and complex hydrological modeline with IISACE-approved modeline tools. IISACE acknowledges
	different conditions than exist today. Further, the	that multiple externalities exist that will invariably lead to lengthy implementation
	detailed project planning and analyses that would	and construction timeframe, and through the implementation process identified in
	2	Section 6.7.1, further opportunity will be taken to update project operating manuals,
	occurred for these components. While we	capture updated conditions and ensure constraints are met.
	recognize the value of the CEPP as a planning	

CEPP Final PIR and EIS

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	process, we do not believe it satisfies the planning	
	requirements necessary for preparation of a PIR to	
	implement CERP components.	
FDACS-2	Implementation of the CERP components included	It is recognized that prior to implementation of each phase, additional detailed
	in the CEPP is constrained by the WRDA 2000	information pertaining to that phase of implementation will be developed. Federal
	Savings Clause. This is clearly recognized in the	laws and regulations applicable to implementing the CERP require PIRs to address
	draft PIR/EIS, which indicates that completion the	certain assurances as part of the project recommendation for approval and
	C-44 Reservoir (IRL-S) and connection to the C-23	subsequent implementation. For the CEPP PIR, the analyses for CEPP associated with
	Canal, as well as modification of the Lake	Section 601(h)(4) and 601 (h)(5) of WRDA 2000 and the Programmatic Regulations for
	Okeechobee Regulation Schedule, must occur in	the CERP (33 CFR Part 385) for Project-Specific Assurances and Savings Clause were
	order satisfy the requirements of the Savings	conducted for the CEPP. Should the project be implemented in multiple PPAs, the
	Clause. There is certainly value in recognizing	USACE District Engineer will ensure that Project-Specific Assurances and Savings
	these future constraints, but we believe their	Clause requirements are met per PPA, per applicable policies and laws. NEPA
	resolution should occur within the context of PIRs	Documentation will be updated if appropriate as revisions are made to Water Control
	prepared for implementing the CERP components	Plans and/or Project Operating Manuals associated with each PPA. Compliance with
	that are subject to such constraints.	the requirements of the Savings Clause will be maintained throughout the entirety of
	•	the CEPP implementation period. This statement has been included in Section 6.7
		(Plan Implementation) of the Final PIR/FIS.
FDACS-3	Water quality considerations also constitute a	The current implementation plan includes consideration for the completion of the
	significant barrier to implementing the CERP	Restoration Strategies features. Projects constructed and/or cost-shared by the
	components included in the CEPP, The draft PIRIEIS	USACE are required to obtain water quality certification from the FDEP. During
	identifies a number of "project dependencies,"	
	projects that must be completed and operational,	apply for and obtain a CERPRA permit which will constitute water quality certification.
	or conditions that must exist, prior to	
	implementation of the CERP components included	
	in the CEPP. In regard to water quality the draft	
	PIR/EIS provides, "All features of the State's	
	Restoration Strategies must be completed and	
	meet state water quality standards prior to	
	initiating construction of most CEPP project	
	features," (Pp. 6-38). If those water quality	
	improvement features are completed and	
	operational by 2029 as currently anticipated, there	
	would still need to be a determination that the	
	CERP components included in the CEPP would not	
	cause or contribute to a violation of State water	
	quality standards. Again, an issue that we believe	

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would best be addressed when the detailed project planning occurs for the affected CERP components. FDACS-4 The recommended plan resulting from the CEPP provides a blueprint for the future implementation of a suite of related CERP components, and should be viewed as provisional. Project dependencies associated with the plan are substantial, and experience suggests that conditions may be very different by the time any of these components are implemented. We are concerned that PIR requirements for CERP components are being deferred to other undefined processes. For example, the draft PIR/EIS indicates that the plan will be implemented in phases and that Savings Clause analyses and projected assurances will be "updated" for each implementation phases. We support the concept of implementing logical groupings of CERP components in phases, but also that each such phase should be the subject of an individual PIR. Permittability and relationship to Preconstruction Engineering and Design (PED) and Project Partnership Agreement (PPA): The CEPP Draft PIR & EIS presents a conceptual plan containing many components that are projected to be implemented in separate phases over a time frame encompassing the years between 2013 to 2040—and beyond. The text and documentation provided in many sections to address this is appreciated, particularly Section 6 — Tentatively Selected Plan, Section 8 — District Engineer's Recommendation, Annex B — Analyses Required by WRDA 2000, and Analyses Required by WRDA 2000, and Analyses Required by WRDA 2000, and		Please see response to comment FDACS-2 above. It is not anticipated that additional PIRs will be necessary for each phase.
		Please see response to comment FDACS-2 above. It is not anticipated that additional PIRs will be necessary for each phase.
		Please see response to comment FDACS-2 above. It is not anticipated that additional PIRs will be necessary for each phase.
		PIRs will be necessary for each phase.
	to the properties of the prope	
	ct dependencies substantial, and and may be very components are prined that PIR tents are being processes. For set that the plan and that Savings surances will be ion phase. We rementing logical phases, but also he subject of an	
	substantial, and one may be very components are remed that PIR lents are being processes. For each the plan and that Savings surances will be ion phase. We menting logical phases, but also phe subject of an	
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Engineering and Design (PED) a Partnership Agreement (PPA): The CC & E15 presents a conceptual plan cont components that are projected to be in separate phases over a the encompassing the years between 202 and beyond. The text and documentat in many sections to address this is particularly Section 6 — Tentatively 50 Section 8 — District Engineer's Mecon Annex B — Analyses Required by WRC	\vdash	It is recognized that prior to implementation of each phase, additional detailed
Partnership Agreement (PPA): The CR & El's presents a conceptual plan cont components that are projected to be in separate phases over a in separate phases over a encompassing the years between 20% and beyond. The text and documentat in many sections to address this is particularly Section 6 — Tentatively Siection 8 — District Engineer's Recol Annex B — Analyses Required by WR		information pertaining to that phase of implementation will be developed. In
& ElS presents a conceptual plan cont components that are projected to be in separate phases over a tencompassing the years between 2013 and beyond. The text and documentation many sections to address this is particularly Section 6 — Tentatively Systion 8 — District Engineer's Recol Annex B — Analyses Required by WRC		recognition of this, additional information will be gained through detailed project
components that are projected to be in separate phases over a tencompassing the years between 205 and beyond. The text and documentation many sections to address this is particularly Section 6 — Tentatively Section 8 — District Engineer's Recon Annex B — Analyses Required by WRC		planning and collaborative work efforts will be maintained to resolve any outstanding
in separate phases over a tencompassing the years between 202 and beyond. The text and documentate in many sections to address this is particularly Section 6 – Tentatively Sin Section 8 – District Engineer's WRCO Annex B – Analyses Required by WRCO		issue(s) prior to the implementation of each phase. If additional information is
encompassing the years between 202 and beyond. The text and documentat in many sections to address this is particularly Section 6 — Tentatively Siection 8 — District Engineer's Recon Annexs B — Analyses Required by WR		necessary to determine that reasonable assurances exist with regard to the
and beyond. The text and documentate in many sections to address this is particularly Section 6 — Tentatively Stection 8 — District Engineer's Record Annex B — Analyses Required by WR		maintenance of existing flood protection and water supply, this information will be
in many sections to address this is particularly Section 6 – Tentatively Syston 8 – District Engineer's Recor Amakyes Required by WR		provided prior to the execution of a project partnership agreement. Additional
particularly Section 6 – Tentatively So Section 8 – District Engineer's Recor Annex B – Analyses Required by WRC		language recognizing the additional information will be gained through detailed
Section 8 – District Engineer's Recor Annex B – Analyses Required by WRC		project planning and continued collaborative work efforts has been added to the
Annex B – Analyses Required by WRE		Section 5 Reasonable Assurances of the State Compliance Report
	_	
Annex C - Draft Project Operating Manual that		Appendix A- Engineering documents analyses and efforts to be completed upon the
acknowledge the uncertainties inherent in this		accrual of site specific subsurface and topographic data in PED. Additional text
planning process due to modeling limitations and		regarding permittability has been added to Section 6.7.2 (Preconstruction
uncertainties, engineering and design limitations		Engineering and Design) and Section 6.7.3 (Construction). Please see response to
during the CEPP planning process, and unknowns		comment FDEP-16 for information about permit review in the future

COMMENTER	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
	associated with the future conditions scenarios	
	developed for CEPP planning purposes.	
	The CEPP Draft PIR & EIS recognizes that	
	permittability can only be determined based on	
	real world conditions existing at the time of project	
	CERP as well as Federal rules, regulations, and	
	statutes regarding CERP can only be evaluated with	
	an acceptable level of confidence when specific	
	project components are in the Preconstruction	
	Engineering and Design (PED) phase during which	
	project assurances, savings clause analyses and	
	operating manuals will be updated consistent with	
	the implementation phases (Section 6 page 6-42	
	-6.7.2). Annex B, B.4.5 page B-71 states that "The	
	Corps and the District will undertake updated	
	project assurances and savings clause analyses for	
	the implementation phases that are selected to be	
	included in a Project Partnership Agreement or	
	amendment thereto prior to entering into the PPA	
	or PPA amendment." The CEPP PIR should provide	
	a comprehensive description on what PIR elements	
	will be covered in the PED and PPA to ensure	
	compliance with CERP's programmatic	
	requirements and any applicable regulatory	
	requirements. We recommend that these issues	
	be addressed in a separate subsection of 6.7 – Plan	
	Implementation so the expectations and strategy	
	are well-defined and vetted during the CEPP PIR &	
	ElS public review process. We believe this is	
	necessary to make it clear that regulatory and	
	and will need to be addressed prior to	
	implementation of CEPP project components.	
FDACS-6	Replacement of the Everglades Agricultural Area	USACE is not seeking to de-authorize the Everglades Agricultural Area (EAA) Phase 1

CEPP Final PIR and EIS

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	(EAA) Storage Reservoir Project with alternative	conditionally authorized project. The CEPP Recommended Plan A-2 FEB does not
	projects is not sufficiently described and	preclude future increments of CERP planning for additional storage in the EAA to
	addressed in the CEPP Draft PIR & EIS. It is	provide additional water supply deliveries for either agricultural irrigation or
	misleading to describe CEPP as an increment of the	ecosystem restoration. For example, the A-2 FEB could be converted to an STA
	EAA Storage Reservoir Project. More accurately,	and/or deeper reservoir that works in conjunction with the State's existing STA
	CEPP completes the elimination the EAA Reservoir	system to accommodate any future upstream storage to further increase water
	Project benefits; the EAA Storage Reservoir Project	deliveries to the Water Conservation Areas, and/or the CERP EAA Storage Reservoirs
	footprint is to be used for the A1 FEB (SFWMD	 (Phase I) storage functions could be implemented.
	Restoration Strategies) and the CEPP A2 FEB. On	
	page ES-3, the first bullet describes Component G	
	as "Everglades Agricultural Storage Reservoirs".	
	The term should be "EAA A2 Flow Equalization	
	Basin (FEB)" and this correction should be made	
	throughout all CEPP documents.	
	The CEPP Draft PIR & EIS should describe the	
	historic formulation of CERP, the purchase of the	
	EAA Storage Reservoir footprint, and the earlier	
	work of EAA Storage Reservoir Project Delivery	
	Team. An understanding of this background	
	explains why the replacement of the EAA Storage	
	Reservoir Project with alternative projects is	
	problematic to many stakeholders, including those	
	advocating for capacity to convey larger volumes of	
	Lake Okeechobee water south, agricultural	
	interests in the EAA that are losing the opportunity	
	for their water supply to be "off the lake" along	
	with some flood risk reduction, and ENP where	
	deliveries during the dry season could be increased	
	by more storage in the EAA. The A1 FEB model	
	results show it decreases deliveries to the	
	Everglades National Park (ENP) and the volume of	
	water the CEPP A2 FEB will be able to store and	
	deliver is yet to be determined. It is unlikely that	
	the planned CERP benefits of the EAA Storage	
	Reservoir Project (water storage and delivery, as	
	well as flood risk reduction) will ever be realized.	
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Loss of benefits that were to be provided by the EAA Storage Reservoir Project and the controversy related to this decision should be acknowledged in the CEPP PRR & EIS.	
FDACS-7	Relationship to Modified Water Deliveries Project: Not including the Modified Water Deliveries operations in the future conditions scenarios because an operational plan has not been authorized for this project while including CERP projects yet to be authorized or funded is an arbitrary and unsupportable position. The Modified Water Deliveries Project facilities are in place and should be operational long before the first component of CEPP is implemented and long before the C-43 West Storage Reservoir is operational. Moreover, some evaluations estimate that once completed and operational, the Modified Water Deliveries Project can potentially deliver that once the ENP. Operation of the Modified Water Deliveries Project should have been analyzed in the future conditions scenarios, should be included in any future CEPP updates, and any information gathered once the Modified Water Deliveries Project is operational should be used in adaptive management for CEPP features.	The purpose of the MWD project is to improve water deliveries to ENP and to the extent practicable, take steps to restore the natural hydrological conditions within western Shark River Slough, to eastern Shark River Slough. The Corps is re-initiating pursuit of operational testing (relaxation of G-3273 gage operational constraint and S-356 test) to utilize the constructed Modified Delivery Project features. Planning for the G-3273-5-356 field test has started but is not complete and necessary approvals (including FDEP) have not been attained. Information from the test will be used to develop the Final Water Control Plan for the MWD project which will allow for re-claristivation of existing water flow from Western Shark River Slough to Northeastern Shark River Slough. The Corps anticipates an operational plan and completion of MWD prior to CEPP implementation. The final operational plan for the MWD project has not yet been developed. Therefore, the CEPP FWO project condition modeling effort includes ERIP as the operational plan. The ERTP contains an operational constraint at gage G-3273 of 6.8 ft NGVD and a maximum operational stage limit of 7.5 ft NGVD in the L-29 borrow canal. Merely including a maximum operational stage limit of 7.5 ft NGVD assumption for the L-29 canal in the model would result in a representation of the FWO condition that violates other project purpose constraints in the system and would not represent a likely FWO project condition. The detailed modeling evaluations of alternative operational scenarios necessary to determine the operational plan for the MWD project where applicable, will be considered as part of the adaptive management for CEPP features.
FDACS-8	Indian River Lagoon South Project/C-44 Reservoir and connection to C-23 Canal: In order for CEPP project components to meet the Savings Clause requirements for existing water supply for the Lake	The Executive Summary, Section 6.8 and Annex B have been edited since the release of the Draft PIR/EIS for public review on August 29th, 2013. These sections of the FPIR/EIS now clarify that the transfer of water from Lake Okeechobee south to WCA 3 and ENP to achieve CEPP objectives does not affect existing legal sources. Water that

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	Okeechobee Service Area (LOSA), the C-44	would otherwise be discharged to the St Lucie estuary when it doesn't need it will be
	Reservoir, the canal connecting it to the C-23	conveyed from the C-44 Reservoir/STA and Canal to Lake Okeechobee to ensure
	Canal, and the A-2 FEB must be built and operating.	existing legal sources of water for the LOSA and the Lower East Coast are not
	However, the CEPP Draft PIR & EIS creates	eliminated or transferred, consistent with the requirements of the Savings Clause.
	uncertainty regarding this dependency. Page ES-7	The Final PIR/EIS presents two potential implementation sequencing scenarios that
	refers to a "potential partial transfer." It is unclear	are possible with the three separate PPAs currently identified: 1) PPA North → PPA
	what a "potential partial transfer" means and what	South → PPA New Water and 2) PPA South → PPA North → PPA New Water. With
	role it plays in meeting the full transfer needed to	each scenario, non-CEPP project features and non-CERP project features identified as
	meet the Savings Clause constraint. It should be	project dependencies in Table 6-10 of the Draft PIR/EIS still apply. Table 6-10
	made clear that the full transfer of water needed	identifies the dependency on the C-44 Reservoir.
	to meet the Savings Clause constraint is available	
	before water can be re-directed south.	
FDACS-9	Modification to the Lake Okeechobee Regulation	Although the CEPP dependency on modifications to the LORS was clearly indicated in
	Schedule - currently LORSO8: According to Table	the draft PIR, the draft PIR text in Section 6.1.1 regarding the LORS revisions has been
	6-10 (Pp. 6-39), "Changes to the 2008 LORS08 will	further clarified based on consideration of all review comments received to the draft
	be needed prior to the full utilization of the A-2 FEB	PIR. The final PIR will include the following text:
	in order to achieve the complete ecological	
	benefits envisioned through re-directing the full	CEPP benefits gained from sending new water south from Lake Okeechobee are de
	210,00 ac-ft/yr south and to avoid low Lake levels	rived in part from operational refinements that can take place within the existing,
	that would affect LOSA." The PIR & EIS should	inherent flexibility of the 2008 LORS, and in part with refinements that are beyond
	clearly state that the Lake Regulation Schedule	the schedule's current flexibility. Modifications to 2008 LORS will be required to op
	must be modified to achieve the CEPP benefits	timally utilize the added storage capacity of the A-2 FEB to send the full 210,000 ac-
	projected and to maintain the level of service for	ft/yr of new water available in CEPP south to the Everglades, while maintaining com
	water supply in the LOSA.	pliance with Savings Clause requirements for water supply and flood control perfor-
		mance levels. Approximately 60% of the overall CEPP benefits are attributed to send
		ing new water south from Lake Okeechobee, based on the implementation analysis in
		Section 6.7.1., and it is expected that most of these benefits can be achieved under
		the inherent flexibility of the 2008 LORS schedule. However, in a worst case scenario,
		up to 60% of the CEPP TSP's benefits may not be attained if no new water could be
		delivered because the 2008 LORS is not adjusted.
		The hydrologic modeling conducted for all CEPP alternatives to optimize system-wide
		performance incorporated the current Regulation Schedule management bands of the 2008 LORS. The hydrologic modeling of the CEPP atternatives included proposed
		revisions to the 2008 LORS flow chart guidance of maximum allowable discharges,
		which are dependent on the following criteria:
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		Class limits for Lake Okeechobee inflow and climate forecasts, including trib utary hydrologic conditions, seasonal climate outlook; and multi-seasonal climate outlook; Stage level, as delineated by the Regulation Schedule management bands; Stage trends (whether water levels are receding or ascending).
FDACS-10	Water Quality: CEPP Draft PIR & EIS language states that CEPP project components cannot be implemented if agreements between the Federal and State partners cannot be reached to ensure that their implementation will not cause or contribute to a violation of State water quality standards. This has already proven to be problematic for the Modified Water Deliveries Project as evidenced by the inability to obtain a permit for operation of the 356 Pump Station in the LO years since it was constructed. This suggests the uncomfortable, but very real possibility that the project components proposed in the CEPP Draft PIR & EIS cannot be permitted or operated. Water Quality is also a major factor in determining the fassibility of CEPP's hallmark goal of diverting excess water from the Lake to WCA-34. The State of Florida is in year one of a fifteen year program to implement the \$880 million project to make sure water entering the EAA meets the water quality based effluent limitation (WQBEL) developed by EPA and included in Clean Water Act permits for the STAs. This plan includes the construction of a FEB is an entitiely new type of feature and there is no information on whether it will perform as simulated in the CEPP and and included during the site of the construction of a feB is an entitiely new type of feature and there is simulated in the CEPP water quality in the CEPP water quality and eld during simulated in the CEPP water quality and eld during simulated in the CEPP water quality model during simulated in the CEPP water quality and eld during simulated in the CEPP water quality and eld during simulated in the CEPP water quality and eld during simulated in the CEPP water quality and eld during simulated in the CEPP water quality and eld during simulated in the CEPP water quality and eld during simulated in the CEPP water quality and eld during simulated in the CEPP water quality and eld during simulated in the cEPP water quality and eld during simulater and succession of a different during simulation of a differen	The SFWMD and the USACE have extensive experience planning, designing, and operating constructed wetland water quality treatment facilities such as STAs. Flow equalization basins are a new concept. However, they are similar in many ways to STAs. The nutrient removal capability of the A-1 FEB was extensively evaluated by State and Federal agencies during the negotiation of the Restoration Strategies Plan. The modeling assumptions used for Restoration Strategies were also used for the CEPP A-2 FEB. Modeling results included in Annex F of the FEB/STA system indicates that these facilities will be capable meet the WQBEL as well as acknowledges the fact that failure to meet the WQBEL is a project risk.

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	will take several years of operations of the A-1 FEB before any conclusions can be drawn about the potential performance of the A-2 FEB recommended in the CEPP. This should be described more clearly in the final PIR so decision makers not as familiar with the project needed to meet the WQBEL are fully informed during the next phases of Congressional and Federal Agency review of the CEPP. Careful consideration should be given to whether the CEPP Draft PIR & EIS should go forward before there is some certainty that these water quality issues will be resolved.	
PDACS-11	avange Lause – No increase flood risk in South Dade for RSM-G. cell 4382. This result is bade for RSM-G. cell 4382. This result is characterized as an anomaly in water levels created by model flaws rather than a condition that will exist in the real world. Any possibility that this result will be seen as legitimate by the next generation of CEPP implementers must be removed. Section 6 – 6.8.2, Annex B.3.2.5 and Annex B.4.2 describe this model result and the review conclusion that the results indicate a Savings Clause violation but further evaluation of the results indicate they are an artifact of the model inputs for that area. However, Annex B.4.2 does not include the cell identification and Section 6.8.2 and Annex B.3.2.5 do. The Model Documentation Report graphic of the water levels for RSM-G. cell 4382 should be labeled as recommended by the Water Supply and Flood Protection Subteam, and should be included in Section 6 and Annex B so there is no opportunity for misinterpretation of the model results as	Section B.L.2. or Annex b describes the LEPP PIK orterial ord sasessing the Savings Clause requirements. Consistent with the WRDA 2000 and the Programmatic Regulations, the savings clause analysis identifies the effects of the plan, not non-CERP actions (including, for example, IORS). The analysis therefore compares the initial Operating Regime with the project (IdA RR2) to the initial Operating Regime baseline without the project (IdA RR2) to the initial Operating Regime baseline without the project (IORBL1) Atthough Annex B additionally includes comparison of Alternative 4R2 with the two existing baseline conditions (2012EC and ECB), to inform evaluators of the cumulative potential effects of both CEPP and other intervening CERP and non-CERP projects relative to conditions experienced previously, this information is not used to determine compliance with the requirements of the Savings Clause. The Annex B analysis of RSN-GL cell 4382, as referenced by the commenter, indicates that the stage duration cuve for indicator cell 4328 (Figure B-38) for the with project condition (IORBL1) during the wettest hydrologic conditions, up to the 20th percentile. Although stage increases are observed compared to the existing condition baselines and stages are higher than the calibration data, the observed effects are not resultant from implementation of the CEPP components. For the Final PIR, Section B.4.2 has been updated to include the cell identification number, and the stage duration cuve graphic (Figure B-38) will include a note that the results for this cell are not predictive of project performance. Project performance proved by perveyited
	indicative of acceptable CEPP performance. The	indicative of acceptable CEPP performance. The and assessed in more detail prior to CEPP implementation, as additional details from

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Subteam recommendation was to include the following text on the graphic itself, "The results for this cell are erroneous, not predictive of project performance, and are not being used for the Savings Clause analyses." You should also consider including language to the effect that this area will be scrutinized as part of the future process to approve implementation of individual components of the CEPP and project operations will be adjusted if necessary to ensure that the problems indicated by the current model will not occur.	PED (most notably, seepage wall design) become available and as additional details are developed for the Project Operating Manual. For the CEPP PIR, the analyses for CEPP associated with Section 601(h)[4] and 601 (h)[5] of WRDA 2000 and the Programmatic Regulations for the CERP (33 CFR Part 385) for Project-Specific Assurances and Savings Clause were conducted for the recommended plan. Should the recommended plan be implemented in multiple PPAs, the USACE District Engineer will ensure that Project-Specific Assurances and Savings Clause requirements are met per PPA, per applicable policies and laws. NEPA documentation will be updated, if applicable, as revisions are made to Water Control Plans and/or Project Operating Manuals associated with each PPA. Compliance with the requirements of the Savings Clause will be maintained throughout the entirety of the CEPP implementation period.
FDACS-12	Section 1 page 1-6: The first paragraph contains cfs rates but not the location associated with them.	Thank you, the text has been corrected. Spedifically, the current paragraph notes that freshwater flows less than 450 and 350 cfs are undesirable for the Caloosahatchee and St. Lucie Estuaries. For further information on where these flows are measured with respect to RSM-BN modeling, please refer to Appendix G (Benefit Model).
FDACS-13	2) Section 2 page 2-12, Table 2-2: The first row "Status of Non-CERP projects includes the "Seepage Barrier Near the L-31 N Levee (Maimi-Dade Limestone Products Association)" in the Future Without (FWO) condition. It is our understanding that this barrier was not included in the future conditions scenarios, unless it is a different barrier than the one discussed at length in the PDT meetings.	Table 2-2 summarizes the status of non-CERP projects, CERP projects and operational plans assumed to differ between the ECB and FWO. Project features listed in Table 2-2 were researed in model unless otherwise noted in Sections 2.5.1 though 2.5.1.5. Section 2.5.1.2 (Seepage Barrier near the L-31 N Levee) notes that since the capability of the seepage wall to mitigate seepage losses is under ongoing analysis, CEPP will not include any length and depth of seepage wall in the FWO project assumptions.
FDACS-14 FLORIDA DEPART	FDACS-14 3) Section 2 page 2-16, item 4.c. states that the G-3273 Relaxation and S-336 Pump Station Test (1st year) are in progress. The proper status is inactive or EIS pending.	Submittal of permit application to FDEP is pending. The Final PIR/EIS has been clarified to indicate that planning for the G-3273/S-356 field test has started but is not complete, and necessary approvals (including FDEP) have not been attained.
FDOT-1; District 6	CEPP Draft Integrated PIR, Figure 4-6. This figure outlines the main components of the TSP (Alt 4R2). One of the key components that could potentially impact the Tamiami Trail roadway base is raising the L-29 max stages to 9.7 feet. The report and figure do not define the datum. From the	Figure 4-6 (end of Section 4) indicates that the Tamiami Trail roadway modifications will be "Future Work by Others." Section 2.5.11 of the CEPP PIR describes the future without project assumptions for the eastern portion of the Tamiami Trail Roadway, based on the assumed Dol completion of the Tamiami Trail Modifications: Next Steps Project — "The remaining unbridged sections of roadway would be elevated to allow a design high water stage of 9.7 ft NGVD in the L-29 borrow canal and to improve

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	the 3A-3G gauge (Figures 55 through 57), which appears to be located within WCA 3A. It would be	
	s	
	through 81 include stage duration curves for the L-	
	paragraph. This paragraph states that Figures 78	District 6
t Additional statistical stage hydrographs for the L-29 Canal have been provided in	Annex A-2: Hydrologic Modeling, Page 83, last	FDOT-3;
	Mailuai, rage C-27, Section 3.5, Second paragraph,	
no.	described in Annex C - Draft Project Operating	
	require raising portions of this roadway as	
	raising the L-29 canal elevation to 9.7 ft NGVD will	
	with raising portions of Tamiami Trail, because	
	Temine from 16 1 1 1 1 1 1 1	
	there was no cost associated with this risk. Does	
•	and Risk Level, respectively, and it appears that	
	Bridges and Road Raising) is identified as Very Unlikely Neoligible and low for likelihood Impact	
	Analysis Table, Risk No. BG-TL (Tamíami Trail	
	Analysis), the SAJ-CEPP Cost and Schedule Risk	
-	Engineering Amendix (Cost Estimates and Risk	
project that will be completed by others, DOI and the State. But it is recognized that	defines the total project cost for the TSP (Alt 4R2)	District 6
-	CEPP Draft Integrated PIR, Table 1. This table	FDOT-2;
	that will be responsible.	
	report should clarify who are the "Other" entities	
	Trail western 2.6-mile bridge will be "others." The	
מבובני משותו אינו בנים בובנים ביים ביים ביים ביים ביים ביים ביים	raised. The figure also states that the Tamiami	
	flood duration is critical in determining if the	
	maintained. As defined in the comment below, the	
	the duration that the peak stages will be	
	referenced. In addition, the report does not define	
÷	The report and figure should specify the datum	
	this elevation will be relative to the NGVD of 1929.	
-	Appendices and Appeaes provided it appears that	111
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	helpful to have stage hydrographs provided for the	
	show the duration of when stages in the canal will	
	be above the existing Tamiami Trail roadway base,	
	which is critical to determine if the durations will require raising the roadway.	
FDOT-4;	It is not clear in the CEPP Draft PIR/EIS	Modifications to the Tamiami Trail roadway under the USACE MWD Project and the
District 6	documentation what the anticipated stages in the	proposed DOI Tamiami Trail Next Steps Project are only applicable to the eastern
	area of Tamiami Trail from Structure S-343 to	segment of Tamiami Trail between S-333 and S-334.
	Structure S-12A/S-14 are. If the stage in this area is	
	also anticipated to be raised to 9.7 ft. NGVD,	The frequency, duration, and magnitude of high water stages in southern WCA 3A,
	approximately 2.5 miles of Tamiami Trail in this	including along Tamiami Trail from S-343 to S-12A/S-14, are reduced by the CEPP TSP,
	area will have to be raised for roadway base	compared to the future without project (FWO) and existing condition (ECB) baseline
	protection. District 6 advises that the L-29 canal	conditions. Maximum RSM-GL period of record (1965-2005) simulated stages
	stage may be raised to a maximum elevation of 8.5	(December 1994-January 1995) with the CEPP TSP for the WCA 3A-28 and S-12A
	ft NGVD in accordance with the operation criteria	headwater locations are approximately 11.9 feet NGVD, compared to approximately
	outline in Article III. Operation issues contained in	12.5 feet NGVD for the ECB and FWO. For reference, the crest elevation of U.S.
	the Contract between the U.S. of America and	Highway 41 (Tamiami Trail) in the reach
	FDOT for Relocation, Rearrangement, or Alteration	between S-12A and S-12D is approximately 14.95 feet NGVD.
	of Facilities, MWD to ENP Project (Tamiami Trail	
	Modifications), dated September 25 (2008)	Complete RSM-BN and RSM-GL hydrologic model performance measure output are
	attached.	posted on the Everglades Plan public web site for the CERP, as indicated in Section 5.2
		and Appendix A:
		http://www.evergladesplan.org/pm/projects/proj 51_cepp.aspx
		I have a comparable of the contraction of the contr
		Popul authorization, appropriation and start of rep, carry continuation will begin mind.
FDOT-5;	District 4 has several transportation structures	Upon authorization, appropriation and start of PED, early coordination will begin
District 4	within the CEPP area including, but not limited to,	with FDOT regarding CEPP project features adjacent to US 27 and US 441 corridors.
	I-75 (SR 93), US 27 (SR 25), and US 441 (SR	
	80/SR15). Proposed increases in water flow need	Preliminary assessments completed for the I-75 roadway and bridging infrastructure
	to be evaluated in terms of roadway engineering	indicated that additional water from the CEPP project would not impact the
	and safety. The report highlights the need to	functionality of the existing facilities. In PED further analyses and efforts will be
	maintain levels of flood protection for the urban	completed as site specific subsurface and topographic data becomes available.
	and agricultural areas east of the WCAs and ENP.	
	However, little discussion, other than Tamiami	
	Trail, is included regarding the potential impacts to	

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	current and future transportation structures (roadways, rail and bridges). The District requests further information regarding how CEPP will integrate transportation infrastructure within its planning framework.	
FDOT-6; District 4	The FDOT is evaluating the feasibility of widening US 27 and developing rail capacity along the corridor, as an alternative to shipping freight along the eastern seaboard from the South Florida Seaports to proposed Inland Logistics Centers around Lake Okeechobee and Certrari Florida. The addition of a rail corridor has potential Florida. The addition of a rail corridor has potential Florida. The traffic to a more rural area, with significantly fewer at egrade crossings. Proposed increases in water flow through the North New River Canal, as well as creating STAs and other water control structures along the US 27 corridor, should be coordinated with the FDOT to work towards mutual regional goals.	Upon authorization, appropriation and start of PED, early coordination will begin with FDOT regarding CEPP project features adjacent to US 27 corridors.
FDOT-7; District 4 TREASURE COAS	District 4 between the FDOT and State and Federal regulatory agencies regarding recreational access and natural resources/mitigation along US 27 and I-75. These agreements should be included within the framework and planning of CEPP.	An annotation indicating that agreements exist between the FDOT, State and Federal regulatory agencies regarding recreational and natural resource access points along US27 and I75 will be added to Appendix F recognizing these FDOT approved access points.
TCRPC-1	Although the recommended plan provides a significant increase in freshwater needed for the restoration of the central Everglades, additional actions are needed to further reduce harmful discharges of freshwater from Lake Okeechobee. Therefore, it is important for the CEPP to proceed in a way that complements other components of CERP currently underway in the region. Approval of the CEPP should not delay or interrupt	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where harmful amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.

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	implementation of other approved CERP projects.	
TCRPC-2	The CEPP recommended plan is consistent with the Strategic Regional Policy Plan. Specifically, the recommended plan furthers the policies in the following goal areas: Regional Goal 6.2: A regional water supply managed to provide for all recognized needs on a sustainable basis. Regional Goal 6.3: Protection of water quality and quantity. Regional Goal 6.5: Protection of estuarine resources. Regional Goal 6.6: Protection of wetlands and deep water habitats. Regional Goal 6.8: Protection of endangered and potentially endangered species. Regional Goal 6.9: Protection and sustainability of the Everglades Ecosystem.	Thank you for your comment.
TCRPC-3 FLORIDA DEPAR FDEP-1	ICRPC-3 Implementation of the recommended plan will help to achieve ecosystem restoration, increased water supplies, improved water quality, and the maintenance of flood protection. This plan represents an opportunity to accomplish these goals and balance the need to provide water for natural systems and urban and agricultural uses. FLORIDA DEPARTMENT OF ENVIRONIMENTAL PROTECTION (FDEP) State Water Quality Standards: A number of water quality issues that could impact the State of Florida's ability to commit as the local sponsor for CEPP were identified as critical issues throughout the planning process. Of these, a fundamental assumption made as part of the future without condition for CEPP was that existing volumes of water would be treated to meet the State's phosphorus criterion prior to discharge to the Everglades Protection Area. Parallel to the CEPP planning process, the State of Florida delivered on its commitment to address water quality in existing	Thank you for your comment. Thanks for the comment. PIR reports include the responsibilities of the state and federal parties.
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	flows to the Everglades Protection Area through development of Governor Rick Scott's Everglades Restoration Strategies Water Quality Plan in 2012. The Governor and Florida Legislature strengthened this commitment through passage of House Bill 7065/Chapter 2013-59, Laws of Florida, which also provides a recurring dedicated source of funds to implement the 880 million dollar plan. The PIR acknowledges that all features of the State's Restoration Strategies must be completed and meet State water quality standards prior to initiating construction of most CRPP project features. The Department issued a National Pollutant Discharge Ellinination System (NPDES) watershed permit (File # FLO778451) and associated consent order (OGG # 12-1148) for the operation and maintenance of the Everglades Stormwater Treatment Areas (STAs), and an		
	Everglades Forever Act (EFA) watershed permit (file # 0311207) and associated consent order (OGC # 12-1149) for the construction, operation and maintenance of the Everglades STAs to the SFWMD on September 10, 2012. These permits are issued pursuant to the requirements of the EFA, Section 373.4592, F.S., and the NPDES program delegated to the State of Florida, pursuant to Title 122, Code of Federal Regulations, and Sections 403.088 and 403.085, F.S. The consent orders that accompany the NPDEs and EFA watershed permits require the design, construction and operation of a series of projects identified in the State's Restoration Strategies Water Quality Plan.		
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	State's effort to restore water quality in the Everglades, build upon the significant investment the State of Florida has made to restore water quality in the Everglades, and complement the acquisition of land, design and construction of the first generation components of CERP. Confinued dose coordination between the Corps, SFWMD (as local sponsor), and the Department will be needed to ensure that the integration of CEPP with State facilities designed to meet State water quality standards will meet the regulatory requirements set forth in the NPDES and EFA watershed permits and associated consent orders referenced above as well as other relevant provisions of state law.	
	Several enhanced procedures (e.g., identifying risks early to aid in addressing uncertainties such as water quality in plan formulation, and improving vertical communication and decision making within the participating agencies and the Corps) were introduced during the planning process. An issue critical to the State of Florida is CEPP's effect on the provisions of the Settlement Agreement/Consent Decreel with regard to water quality within ENP. This issue was recognized early in the risk register and elevated for resolution. Since CEPP involves redistribution of flows and increased water volume above existing flows, it was recognized that water quality will be impacted as currently measured by the compliance methodology in Appendix A of the Consent Decree and that future conditions may warrant addition all water quality features. Through consultation with the principals of the parties to the Settlement Agreement, it was recognized that implementation of CEPP would require revisions to the existing	
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Appendix A comp and scope for subsequently bee the settling partit added to the Dis	Appendix A compliance methodology The process	
imperative that all parties to important commitment to develop a scientifically compliance methodology an whether additional water necessary to treat additional system via CEPP implements agreed upon revisions to Alshare agreement on any adfeatures to address addite Everglades as a result of CEP impact the State's ability to a implement these projects. In addition to the recognit water quality compliance mew project water ente establishes other basic princit the development of CEPP y quality, including: 1) All features of the State's must be completed and mestandards prior to initating CEPP project features. 2) Construction of CEPP proproceed until it is determined and operation of the feature:	and scope for accomplishing these goals has subsequently been established and agreed upon by the settling parties. Language was negotiated and added to the District Engineer's Recommendations in Section 8 to memorialize this outcome. It is important commitment to work together to develop a scientifically supportable revised compliance methodology and continue to assess whether additional water quality features are necessary to treat additional water moved into the system via CEPP implementation. Failure to reach agreed upon revisions to Appendix A and a cost share agreement on any additional water quality features to address additional water to the Everglades as a result of CEPP implementation will impact the State's ability to approve and/or implement these projects. In addition to the recognition that Appendix A water quality, compliance must be addressed for new project water entering ENP, the PIR establishes other basic principles considered during the development of CEPP with respect to water quality, standards prior to initiating construction of most CEPP project features. 2) Construction of CEPP project features cannot proceed until it is determined that construction of most proceed until it is determined that construction and operation of the feature.	
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	 Additional CEPP water quality treatment features, including operational and structural modifications, may need to be constructed if State water quality standards are not met upon operations of CEPP project features. 		
	As part of the State's regulatory process, the Department will require reasonable assurances that State water quality standards in the Everglades Protection Area, including the WCAs and END, will not be violated. Keeping this in mind, and through inclusion of the agreed upon		
	water quality principles and aforementioned language regarding the Consent Derree, the Department believes that the PIR, as currently written, provides the appropriate framework to address water quality issues that may occur as a result of the implementation of CEPP. It is		
	important to note that the District Engineer's Report states that should any of the existing recommendations be modified prior to the PR being transmitted to Congress, that the Sponsor and the State will be advised of these modifications and afforded an opportunity to comment further. It is imperative that the Corts follow through with		
	this commitment, as any changes to the agreed upon language could impact the State of Florida's ability to find the CEPP plan consistent with the enforceable policies of the Florida's federally approved Coastal Management Program and		
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	willingness to accept the role of local sponsor. We	
	expect to see the agreed upon language mirrored in the Chief of Engineer's Report and Record of	
	Decision, and anticipate concurrence that the plan,	
	as currently proposed, is consistent with the	
	provisions of the Florida Coastal Management	
	rogram – II boun adequatery support the statements contained in the negotiated language.	
FDEP-2	Expedited Planning Process: Successful restoration	Thank you for your comment regarding the Civil Works Program - Pilot Study
	of the Everglades is contingent on integrating and	Implementation. This study process continues to use quality planning practices and is
	streamlining both the State and Federal efforts.	intended to increase public participation, broaden public input and shorten the
	The CEPP is one of seven projects being tested	timeframe for completion of a pre-authorization (planning) study.
	improve the Federal planning process by	
	and proc	
	necessary to develop a Corps feasibility study in	
	the case of CERP, a PIR/EIS. The State of Florida	
	strongly supports this effort and committed	
	resources early on to ensure a successful outcome.	
	The Department is pleased to see language in the	
	draft versions of WRDA currently circulating	
	ne U.S. Congress that could tu	
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	feasibility studies. Completion of CEPP, and	
	continued streamlining by all Federal and State	
	agencies as CEPP moves through the final approval	
	phases will demonstrate the success of this pilot	
	program on a national level.	
	Denartment staff have actively narticinated in the	
	development of the recommended plan and	
	associated PIR. We commend the Corps and	
	SFWMD for delivering a draft PIR in record time,	
	and believe the planning process was significantly	
	improved over previous CERP efforts. This was due	
	to focusing the efforts and resources on	
	project that allowed for innovative plan	
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	formulation processes to be developed using Multi	
	Criteria Decisional Analyses. Having a focused	
	planning team that worked systematically through	
	multiple formulation phases under a very tight	
	timeline was helpful for moving the plan	
	formulation process forward on an accelerated	
	schedule. Perhaps more importantly, however, in	
	terms of developing a plan that has broad	
	stakeholder support was having the public actively	
	participate in the planning process and providing	
	opportunities for valuable input through the South	
	Florida Ecosystem Restoration Task Force Working	
	Group Sponsored Workshops.	
FDEP-3	Sequencing: The PIR states that CEPP is composed	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been
	of implementation phases that include features or	edited since the release of the Draft PIR/EIS for public review on August 29th, 2013.
	logical groupings of plan features, and that	Project features are grouped into three separate PPAs based upon the spatial
	individual Project Partnership Agreements (PPAs),	distribution of the project features and the locations within the CEPP study area
	or amendments to existing PPAs, will be executed	where separable hydrologic and environmental benefits would accrue. These
	prior to construction for each implementation	groupings include a PPA of project features in northern WCA 3A (PPA North), a PPA of
	phase. The PIR also recognizes dependencies on	project features in southern WCA 3A, 3B, and ENP (PPA South), and a final PPA which
	both CERP and non-CERP projects that must be in	provides the new water and required seepage management features that benefits
	place prior to the implementation of CEPP. Many	the entirety of the study area (PPA New Water). The Final PIR/EIS presents two
	of these will require integration into the	potential implementation sequencing scenarios that are possible with the three
	sequencing of CEPP to avoid unintended adverse	separate PPAs currently identified: 1) PPA North \Rightarrow PPA South \Rightarrow PPA New Water and
	consequences, and to allow for restoration benefits	2) PPA South → PPA North → PPA New Water. With each scenario, non-CEPP project
	to be achieved as early as possible. However, the	features and non-CERP project features identified as project dependencies in Table 6-
	PIR is lacking in detail regarding these groupings,	10 of the Draft PIR/EIS still apply. Other viable options for the implementation of
	interdependencies, phasing, and the estimated	project features and subsequent groupings into PPAs may be considered in the future
	year of initiation for features.	and is acknowledged within the Final PIR/EIS. Should the project be implemented in
		multiple PPAs, the USACE District Engineer will ensure that Project-Specific
	Although the Department believes the	Assurances and Savings Clause requirements are met per PPA, per applicable policies
	implementation schedule requires refinement and	and laws. NEPA Documentation will be updated if applicable as revisions are made to
	optimization, we stress that this need should not	Water Control Plans and/or Project Operating Manuals associated with each PPA
	hold up completion of the PIR and submittal to	
	Congress for authorization. Rather, this process	Figure 6-11 of the Draft PIR/EIS provided the earliest that the TSP contracts could
	would be the logical next step in the overall	initiate based on internal/external project dependencies and sequential construction
	implementation of the restoration of the greater	limitations (i.e. staging, access, disposal and utilization of materials).

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	south Florida ecosystem, taking into account recent progress start has been made on both CERP and non-CERP projects in the region. The PIR acknowledges that the Corps and the SFWMD will undertake integration of CEPP and the other CERP projects awaiting authorization into the integrated Delivery Schedule. We caution, however, that the need for additional refinement of the phased implementation and sequencing plan be considered carefully, so as to take regulatory requirements, water supply and flood control issues into account and not drive up programmatc costs.	
FDEP-4	Sequencing: Section 6,7.1 identifies a number of basic principles that were considered in developing the implementation sequence proposed in the PIR. However, it is important to note that these guidelines were not provided to the PDT, and to our knowledge were not identified during the public workshop held to solicit public input on the sequencing of projects. We recognize that many of these represent policy issues that were being resolved concurrently during development of the CEPP. Since the PIR states that a robust public process will be used to integrate CEPP into the integrated delivery schedule for the south Florida restoration program, it will be important to clearly present these issues and define how they affect the implementation and sequencing plan so that all stakeholders can better understand the constraints (and opportunities) moving forward.	Section 6.7.1 (Implementation Phasing and Construction Sequencing) of the Draft PIR/EIS and exercises designed to receive PDT input on implementation was presented at various PDT meetings (July 8 th , 2013, March 5 th , 2013, March 20 th , 2013, This section of the report has been edited since the release of the Draft PIR/EIS for public review on August 29 th , 2013. New information contained within this section will be subject to a 30 day public review period during the release of the Final PIR/EIS.
FDEP-5	Sequencing: Figure 6-11 provides a broad view of implementation phases and sequencing of construction, but it is not clear how this schedule was derived and the logic behind the duration of the projects. More information regarding the estimated timeframes for CEPP is needed so that a	Figure 6-11 of the Draft PIR/EIS utilized the durations in Appendix B based on \$100 million a year funding constraint, added in adaptive management preferred scope, internal and external project dependencies and sequential construction dependencies which lengthened the actual time. The A-2 FEB shown in Figure 6-11 of the Draft PIR/EIS depicts 13 features constructed in 5-6 different contracts based on spatial constraints, i.e construction access, staging, disposal etc. This is best to ensure

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	realistic sequencing plan can be developed, taking into account necessary project authorizations, Federal and State funding streams, and other related requirements. The State's schedule for restoration strategies has been established, so these dates should be hard-wired into the implementation plan for CEPP. While the PIR acknowledges that completion of restoration strategies and the need for these features to meet State water quality standards prior to initiating construction, it does acknowledge that this is for most CEPP project features. CEPP features that may be independent of this requirement should be identified to determine whether early sequencing of project phases is feasible. Again, we stress that the sequencing effort should not hold up completion of the PIR, but rather be identified as	that multiple contractors are not vying for the same spaces as each feature is completed. Some works logically are dependent upon others to be complete for usage. These factors were considered as well as cost. All assume that PED, 3 years, is completed prior to the initiation of each construction contract.
:	the logical next step after CEPP and the other CERP projects with completed Chief's reports have been authorized through the next WRDA.	
FDEP-6	Project Costs: The State of Florida, particularly the Department and SFWMD. have spent a significant amount of time and money acquiring more than 243,000 acres of land for the implementation of CERP. We commend the PDT for focusing planning efforts for storage and treatment projects on lands already in SFWMD ownership, which results in significant savings for taxpayers and puts the State's significant investments to work. Authorization of CEPP, and the other four CERP projects with completed Chief's Reports, will allow the State to receive credit for early efforts on land acquisition and construction, which is critical to balancing the 50-50 cost-share under CERP and keeping Federal construction efforts on pace.	Level of detail, associated risks and costs have been affirmed as sufficient for the CEPP expedited effort. The next phase of the Corps Civil Works process, PED, will involve refinement of design, risks and costs based on the detailed site specific data yet to be acquired. The project contingencies were established using a cost risk register and CORPS methodologies. Multiple risk analysis meetings were held, and input was provided from all stakeholders including SFWMD and FDEP. The biggest risks are the planning process. The programmatic costs cover PED, EDC and S&A for the project to help expedite the planning process. The programmatic costs cover PED, EDC and S&A for the project and are based on Thistorical averages. Without an acquisition strategy or construction schedule, it is difficult to predict exactly what will happen. One of the CORPs primary objectives for the report is to establish a budgetary 902 limit that the construction will not exceed.

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	in parallel during the final approval for the P{R to	
	further refine the cost estimates for the CEPP. The	
	project contingencies (currently at 42 percent) in	
	particular should be evaluated to identify further	
	reduction in costs. In addition, almost half a billion	
	dollars has been budgeted for additional planning,	
	detailed design, and to oversee construction of 1.3	
	billion dollars worth of project components (total	
	construction cost). These estimates, which add 37	
	percent to the total project costs, appear to be	
	excessive. Typical engineering costs are generally	
	10 percent of the project construction cost. We	
	urge the Corps to identify ways to streamline and	
	reduce costs associated with planning and design,	
	and staffing, in particular. In order to continue the	
	State's partnership with the Federal government, it	
	is imperative to find ways to more equitably	
	balance programmatic costs between the Corps	
	and SFWMD as the local sponsor to more	
	effectively balance the 50-50 cost share. These	
	costs should be tied to the partnership agreements	
	between the agencies to control the expenditures	
	and ensure cost efficiency.	
FDEP-7	Regulatory Considerations: Upon completion of	Thank you for your comment The USACE and SFWIMD will continue to work closely
	detailed design, phases of CEPP will require a	with FDEP during project design, permitting, construction, and operation to ensure
	Comprehensive Everglades Restoration Plan	that the project is consistent with existing permits and state/federal water quality
	Regulation Act (CERPRA) permit under Section	standards.
	373.1502, F.S. Other Department permits may be	
	required during the construction phase of this	
	project, as applicable. Further coordination will	
	needed to ensure that appropriate permit type is	
	identified early to ensure that reasonable	
	assurances needed for regulatory authorization can	
	be considered during detailed design. This will, to	
	some degree, be dependent on the	
	olementation se	
	of CEPP, so it is important that regulatory	

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	considerations be incorporated into the sequencing development process. The Corps and the SFWMD should work closely with the Office of Ecosystem Projects to ensure that the appropriate regulatory milestones are built into not only the overall plan for CEP, but also for individual project schedules, and are consistent with the requirements of the existing State and NPDES		
	While further refinement of the implementation and sequencing plan and cost estimates are needed, and further action to address water quality issues may be required, at this stage, the Department supports the implementation of CEPP and believes the plan complements the State's efforts to restore water quality and our continued commitment to the restoration of the Greater Everglades ecosystem. We would like to reiterate, however, that any changes to the negotiated language or principles established in the PIR could impact the State of Florida's ability to find the CEPP plan, or phases of the CEPP plan, consistent with the enforceable policies of the Florida's federally approved Coastal Management Program and effect the State's ability to ast the local sponsor.		
	Provided there are no changes that require further discussion and negotiation between the State of Florida and the Federal government, the Department supports continuing forward with the CEPP approval process on an expedited schedule. The State of Florida has expedited the necessary reviews to determine whether or not the project, as currently proposed, is consistent with the requirements of State law. We strongly urge the Corps and other Federal agencies to continue in		
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	this expedited fashion and commit to streamlining	
	and expediting the remaining reviews through the	
	vertical team in order to position the final PIR for	
	authorization in any potential future WRDA bill.	
	Completion of CEPP will also serve to demonstrate	
	success of the nationwide pilot program, which will	
	garner further support for inclusion of the	
	expedited feasibility program in a final WRDA.	
FDEP-8	Section 2.5.9 Picayune Strand Restoration	Section 2.5.9 (Picayune Strand Restoration Project) has been edited to be consistent
	Project, page 2-17:	with the most recent fact sheet presented on www.evergladesplan.org dated July
	This section gives very specific project features	2013.
	(83 canal plugs and 227 miles of road removal).	
	These may not be completely accurate and it may	
	be better to give more broad ranges (up to 260	
	miles, plugs placed in 48 miles of canals).	
FDEP-9	Section 3.2.1.3, page 3-11: As noted in the text,	CEPP benefits gained from sending new water south from Lake Okeechobee are
	plan formulation and modeling performed during	derived in part from operational refinements that can take place within the existing,
	screening included provisions to modify the	inherent flexibility of the 2008 LORS, and in part with refinements that are beyond
	operations of Lake Okeechobee within the existing	the schedule's current flexibility. Modifications to 2008 LORS will be required to
	operational flexibility available in the 2008 Lake	optimally utilize the added storage capacity of the A-2 FEB to send the full 210,000
	Okeechobee Regulation Schedule Study (LORSS).	ac-ft/yr of new water available in CEPP south to the Everglades, while maintaining
	However, the PIR states that the assumptions	compliance with Savings Clause requirements for water supply and flood control
	made during CEPP formulation ultimately extended	performance levels.
	beyond this flexibility due to adjustments made to	
	the tributary/ climatological classifications, This	The hydrologic modeling conducted for all CEPP alternatives to optimize system-wide
	section implies that a separate NEPA analysis will	performance incorporated the current Regulation Schedule management bands of
	be necessary, which is surprising given the careful	the 2008 LORS. The hydrologic modeling of the CEPP alternatives included proposed
	consideration the PDT placed on working within	revisions to the 2008 LORS flow chart guidance of maximum allowable discharges,
	the existing LORSS. Please clarify whether or not a	which are dependent on the following criteria:
	NEPA analysis to evaluate the assumptions made	
	during CEPP formulation will be needed, along with	 Class limits for Lake Okeechobee inflow and climate forecasts, including trib
	an explanation and justification for these changes.	utary hydrologic conditions, seasonal clímate outlook, and multi-seasonal
		climate outlook;
		 Stage level, as delineated by the Regulation Schedule management bands;
		 Stage trends (whether water levels are receding or ascending).

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		Most of the 2008 LORS refinements applied in the CEPP modeling lie within the
		bounds of the operational limits and flexibility available in the current 2008 LORS,
		with the exception of the adjustments made to the class limits for the Lake
		Okeechobee inflow and climate forecasts. Under some hydrologic conditions, the
		class limit adjustments made to the Lake Okeechobee inflow and climate forecasts
		reduced the magnitude of allowable discharges from the Lake, thereby resulting in
		storage of additional water in the Lake in order to optimize system-wide performance
		and ensure compliance with Savings Clause requirements. However, these class limit
		changes represent a change in the flow chart guidance that extends beyond the
		inherent flexibility in the current 2008 LORS. Additional information and
		documentation of the CEPP Recommended Plan modeling assumptions for Lake
		Okeechobee operations are found in the Appendix A (Engineering) of the CEPP PIR.
		Independent of CEPP implementation, there is an expectation that revisions to the
		2008 LORS will be needed following the implementation of other CERP projects and
		Herbert Hoover Dike infrastructure remediation. The USACE expects to operate
		under the 2008 LORS until there is a need for revisions due to the earlier of either of
		the following actions: (1) system-wide operating plan updates to accommodate CERP
		"Band 1" projects, as described in Section 6.1.3.2, or (2) completion of sufficient HHD
		remediation for reaches 1, 2 and 3 and associated culvert improvements, as
		described in Section 2.5.1. When HHD remediation is completed and the HHD DSAC
		Level 1 rating is lowered, higher maximum lake stages and increased frequency and
		duration of high lake stages may be possible to provide the additional storage
		capacity assumed with the CEPP TSP . The future Lake Okeechobee Regulation
		Schedule which may be developed in response to actions (1) and/or (2) is unknown at
		this time. It is anticipated that the need for modifications to the 2008 LORS will be
		initially triggered by non-CEPP actions and that these actions will occur earlier than
		implementation of CEPP. Therefore, the CEPP PIR will not be the mechanism to
		propose or conduct the required NEPA evaluation of modifications to the Lake
		Okeechobee Regulation Schedule. However, depending on the ultimate outcome of
		these future Lake Okeechobee Regulation Schedule revisions, including the level of
		inherent operational flexibility provided with these revisions, CEPP implementation
		may still require further Lake Okeechobee Regulation Schedule revisions to optimize
		system-wide performance and ensure compliance with Savings Clause requirements.
FDEP-10		
	formulation, the need to provide new or	management measure and features, including new or modified pump stations. Plan
	modified pump stations to distribute flows across	formulation efforts established the degree of technical detail necessary for

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	northern WCA 3A was considered as the	assessment of alternative components within the hydrologic modeling tools, and
	infrastructure at the existing S-8 pump station is	preliminary engineering design recommendations were generally coordinated with
	over 40 years old and may require repair or	the PDT.
	replacement, into does not appear to be acknowledged in the DIR in this section or the	The limited proliminary design of the TSP is described in Appondix A. Engineering of
	afternatives as presented in Section 3.0. However,	the CEPP PIR. Assumptions for design of CEPP TSP features are detailed within
	the engineering appendix includes the design of a	Appendix A (to the extent applicable) for cost development purposes.
	new gated culvert structure and a new canal	
	rather than retrofit or replacement of the	Further analyses will be completed in PED for all CEPP features upon accrual of site
	existing structure. Please provide an explanation for this change along with an analysis to	specific data to refine the preliminary design completed to date. Appendix A conditionally indicates that notential design modifications to the existing S.2VG-404
	demonstrate that the existing pump station can	complex will be assessed during PED. Appendix A further recognizes the significant
	handle the additional lift required, which may	design uncertainties to be addressed during PED: "For CEPP, the S-8 pump station
	potentially affect flood protection capacity at the	and/or G-404 may require design modifications (or possible replacement). The TSP
	S-8 pump station. Also, has the cost-effectiveness	cost estimate includes costs for the potential S-8 complex modifications, which are
	of the new design as compared to the original plan	included as the new S-8A (canal connection to L-4 and two culverts structures).
	proposed by the PDT been evaluated? The PIR	During PED, the following design uncertainties will be assessed/reassessed in further
	indicates that there will be further analysis of the	detail: modifications to S-8 and/or G-404, to address pump efficiency concerns; the
	S-8 pump station during detailed design.	proposed S-8A culvert and associated canal connecting the Miami Canal to the L-4
		Canal; and the required length of the unmodified Miami Canal to maintain hydraulic
		getaway conveyance capacity. Flood control operation capability will be maintained
		during S-8 modification construction. S-8 is equipped with four 1,040 cfs diesel pumps
		for a total capacity of 4,160 cfs. The pump station is located in the alignment of the
		Miami Canal at the northern boundary of WCA-3A" (Sections A.5.3.3.2.2, A.6.3.3.2.2,
		and A.6.3.4.2). The anticipated need for additional hydraulic design modeling of the
		S-8 complex is also stated in Section A.8.4.
FDEP-11	Section 4.2.2.1, page 4-13: The habitat unit	The unconstrained base year for the period of economic analysis for CEPP is the year
	calculations provided appear to be based an	2022. The base year assumes CEPP will be authorized, designed, and constructed by
	assumption that benefits will be achieved starting	2022. This assumes authorization in the year 2014, followed by a 2-3 year period of
	from year 2022, and that about 50% of the Greater	pre-construction engineering and design and construction duration of 6 years. This
	Everglades (WCA 3 and ENP) benefits are achieved	assumption was derived early in the planning process and assumes unconstrained
	in the first two years. However, elsewhere in the	resources and funding. At the time that the economic analysis was completed the
	PIR, it states that most of the associated features	CERP period of analysis was used, which ends in 2050. See PIR Section 2.2 (Planning
	will not be constructed before 2029. Please	Horizon) for discussion The Final PIR/EIS has been updated to also include a base
	provide a more detailed explanation for these	year of 2029 to reflect the best schedule for implementing project features and has
	calculations, as it appears that 50% of the benefits	extended the period of economic analysis to 2079 to reflect a 50 year period.
	occur before construction starts. Please verify	

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	that the same schedule has been included in all	
	parts of the report.	
FDEP-12	Figure 6-10, page 6-18: Figure label incorrectly makes reference to 1989 as a wet year. Top of the	Thank you. The figure label has been corrected.
	figure shows the year to be 1995. Text in the label needs to be corrected.	
FDEP-13	Section 6.1.3 Project Operations, page 6-9: Will	There will not be individual stand-alone POMs for multiple phases. There will be one
	Constitute Manual (DOM) or will the control (CED)	document that is continually revised.
	POM be submitted with each phase, with	
	modifications specific to the phase? This could	
	impact how the Department evaluates projects	
	from a regulatory perspective.	
FDEP-14	Section 6.4, page 31: The text explaining cost	The estimate costs will be in FY14 since that will be the FY that the estimate is
	estimates for the TSP states that costs were	prepared. FY15 Dollars will be used for the first cost if the report is not ready till FY15.
	estimated at Fiscal Year 2013 and escalated to	
	October 2015 price levels "to coincide with the	
	expected project authorization." If the actual	
	expected date is 2015, then all cost estimates	
	should be reported at the 2015 price level	
	(currently some are FY 2013).	
FDEP-15	Section 6.7.1: It is not clear how Figure 6-11 was	Figure 6-11 of the Draft PIR/EIS utilized the durations in Appendix B based on \$100
	derived and the logic behind the duration of the	million a year funding constraint, added in adaptive management preferred scope,
	projects. For example, why does it take 9 years to	internal and external project dependencies and sequential construction
	construct the Flow Equalization Basin (FEB)?	dependencies which lengthened the actual time. The A-2 FEB shown in Figure 6-11 of
	Please provide further explanation.	the Draft PIR/EIS depicts 13 features constructed in 5-6 different contracts based on
		spatial constraints, i.e construction access, staging, disposal etc. This is best to ensure
		that multiple contractors are not vying for the same spaces as each feature is
		completed. Some works logically are dependent upon others to be complete for
		usage. These factors were considered as well as cost. All contract sequencing
		assumed that PEU Will take three years and Will be completed prior to the initiation of
	- 1	each construction contract.
FDEP-16	Section 6.7.3 Construction, page 6-42: This	Added to 6.7.2 Preconstruction Engineering and Design section. "After completion of
	regarding	60 percent final plans and specifications for a given project feature, the lead
	phasing should also consider permitting	construction agency (USACE or SFWIMD) will prepare and submit a CERPRA permit
	requirements and reasonable assurances needed.	application (Florida Statutes: 373.1502) to the FDEP. The FDEP will review the
	Early coordination with the Department will help	application material to determine if reasonable assurance has been provided that the

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Appendix C.3

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	streamline the permitting process. Please include timeframes associated with the permitting	feature will be consistent with state water quality standards. The FDEP typically requires from 6 to 12 months to review and issue a CERPRA permit which for Corps
		constructed features will constitute water quality certification. "
		Added to 6.7.3 Construction "Construction contracts for project features will not be
		awarded by the USACE prior to obtaining CERPRA permit authorization or other water quality certification."
FDEP-17	Section 6.9.3 Water Quality and Effects on State	Sentence has been amended to clarify that "NPDES discharge permits and EFA
	Facilities, page 6-50: The PIR states that	watershed permits with associated effluent limits will govern STA discharges from the
	"discharge permits with associated effluent	state facilities."
	limits will govern discharges from the state	
	facilities." Note that this is only relevant when	
	discussing STA facilities permitted under the	
	NPDES and EFA watershed permits. Please make	
	the appropriate clarification.	
FDEP-18	Section 7.1.2 FEB Operations, page C-32: The last	Section 7.1.2 FEB Operations, page C-32: The last Thank you for the update. The suggestion to seek information and consistency with
	bullet states that no supplemental water supply is	the A-1 Adaptive Operations and Management Plan (AOMP) has been added to the
	provided to the FEB to prevent dryout. Please	FEB strategy in the CEPP Adaptive Management plan (Annex D Part 1 pg 16).
	note, however, that the FEB is expected to provide	
	some treatment and through adaptive	
	management, operation of the FEB should work	
	towards optimizing performance. During	
	permitting of the State's A-1 facility, we discussed	
	monitoring to address dryout and Science Plan	
	efforts to determine what adaptive management	
	techniques should be implemented. The A-1	
	Management	
	(AOMP) is referenced on page C-43. We	
	recommend utilizing a similar approach for the A-2	
	FEB for consistency.	
FDEP-19	Section 7.3 Compliance with USACE CERP	Barium has been added to text on page 7-8.
	Agricultural Chemical Policy, page 7-8: The	
	Department's Waste Compliance Assistance and	Per the comment, the following has been added to the page 7-8. "The water quality
	Enforcement Section provided a memorandum	monitoring plan in Appendix D includes a start-up operation sampling event that
	dated April 4, 2013, regarding the Phase II	should be performed at the 30- or 60-day period from inundation, as well as an
	Environmental Site Assessment for A-2 Flow	additional surface water sampling event that should be performed after one year of
	Equalization Basin. The Department's review was	operations."

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	performed following the "Protocol for Assessment, Remediation and Post Remediation Monitoring for Environmental Contaminants on Everglades Restoration Projects" known as the White Paper. Based on this memorandum, please also include barium in the list of contaminants that will be sampled. Also, please clarify that initial operation includes a start-up operation sampling event that should be performed at the 30- or 60-day period from inundation, as well as an additional surface water sampling event that should be performed after one year of operations.	
FDEP-20	Section 7.4, page 7-9: Please change Florida "Stature" to "Statutes."	Thank you. The text has been corrected.
FDEP-21	Section 7.4, 2nd paragraph: Reference is made to the SFWM0'S State Compliance Report required by Section 37.1502, F.S., being included in Annex B. As noted elsewhere in the document, the draft PIR does not contain this report, it only includes "Analyses Required by WRRA." Please coordinate with the SFWMD to ensure that sufficient and timely information is provided and that the report is included in the final PIR.	The 1501 Compliance Report has been included in Annex B as indicated in Section 7.4.
FDEP-21	Section 9.0: We recommend revising this section to recognize stakeholders that actively participated and provided meaningful contributions during the CEPP planning process. In addition, the list of preparers and reviewers does not appear to fully represent everyone that contributed to writing sections of the PIR.	Section 9.0 provides a list of persons directly involved in the preparation and review of the document. Section 9.0 has been revised to include individuals who directly contributed to writing sections of the CEPP PIR/EIS.
FDEP-22	CEPP Appendix B Cost Engineering: The PIR states that the construction cost estimate may be further refined after the release of the draft report (section B.I.6). As noted elsewhere in our comments, the Department supports further refining costs to ensure that the proposed TSP cost effective. Based upon the cost breakdown	The initial costs developed were for comparative purposes only and were not actual construction costs. The costs were refined with input from SFWMD on construction methods and assumptions. The cost estimate is based on the preliminary design for the EB with the associated risk of not having site specific information. All features have been scoped to a level of detail with the available data using best professional judgment. This work has been vetted through stakeholders, local sponsor and judgment reviewers and affirmed as sufficient for CEPP PIN. Design refinements will

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	provided in this section, the FEB accounts for approximately 43% of the total construction cost for the TSP. During plan formulation, the FEB was retained as a cost effective management measure based upon the cost effectiveness (preliminary cost of \$1.75 million versus \$1.2 billion for the 12-foot-deep reservoir). The assumptions associated with the A-2 FEB appear to be very high, in part based upon the assumptions that went into the engineering design for this facility. Please provide more details regarding the development of costs for the four alternatives and an explanation for the high cost of this facility.	occur in PED.
FDEP-23	Section B-3: This section provides a breakdown of the cost estimates for each structural component of the The Fill of the Tentatively Selected Plan. The most costly feature of the plan is the FEB and the associated infrastructure. The estimated construction cost for the 14,000-acre A-2 FEB is approximately \$480 million, where the 2013 FY contract cost is estimated at \$538 million at the remaining cost are contingencies (42% or \$442 million). The SFWMD recently received bids for construction on the A-1 FEB that the State of Florida is constructing under Restoration Strategies, which ranged from approximately \$60 million to \$88 million. The low bid was just less than what the SFWMD engineering division had estimated and previously shared with the Corps. The two FEBs are similar in many ways – size, requirements, location, and both use the same inflow pump stations and require the same type of levees and distribution system. Therefore, it is unclear why there is such a large discrepancy in the cost estimates for both facilities. In reviewing the cost and engineering appendices it appears	NOTED. The current bid price to complete the A-1 FEB does not include the approx \$200 million already spent on the A-1 FEB. A-1 FEB and A-2 FEB are similar yet different in some aspects. The two FEBs differ in scope, ranging from higher levees, larger structures and canals. These differences of design, construction assumptions and associated risks are reflected in the costs which were thoroughly vetted with joint USACE/SFWMD engineers and construction staff. This resulted in a refinement of the costs that were previously higher. These are the costs to date. Any further design refinements will occur in PED once A-1 and subsequent site specific data is obtained.
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	the Corps design is quite different for A-2 FEB and	
	costs estimates were used for Kissimmee River	
	structures rather than more recently constructed	
	adjacent projects such as STA 3/4 and	
	Compartment B. We strongly urge the Corps work	
	closely with the SFWMD to further refine design	
	and costs estimates to ensure that a feasible and	
	cost-effective alternative for the A-2 FEB can be	
	constructed.	
FDEP-24	Section B-6, page B-31: There is a statement that	The schedule that the estimate is based upon is included in the cost appendix. Full
	the Total Project Cost Summary (TPCS) was	project implementation to include adaptive management scope, funding of \$100M a
	prepared based upon the scope of the	year, PED and sequential internal/external construction dependencies, is shown as
	recommended plan and the "official project	Figure 6-11. Figure 6-11 depicts the implementation Scenario (North, South, New
	schedule". There appear to be a number of	Water).
	inconsistencies in the scheduling assumption	
	throughout the Draft PIR and it is not clear which	
	schedule is assumed here. Please provide the	
	schedule that was used for the TPCS estimate. If	
	this is the same schedule as provided in section	
	B.4, please make reference to the schedule	
	provided there.	
FDEP-25	Section B-6.1: The total cost summary sheet is	The total costs have been updated to include consideration of the local sponsor's
	dated July 1, 2013. The total project cost shown is	input. The \$2.2B is fully funded. The estimated cost is \$1.68M. No revision to the cost
	\$2.2 billion. It is our understanding that total	is required.
	costs have been updated to include consideration	
	of the local sponsor's input, and are approximately	
	\$400 million less than what is shown here. Please	
	revise and update this text accordingly.	
FDEP-26	Appendix C Environmental and Cultural	The revised IORBL1 updated the FWO to include the final SFWMD proposed
	Resources, Section C.2.2.7.13: The majority of	operational intent for the Restoration Strategies Project, the 2.6 mile western
	Appendix C compares the Alternatives to the	Tamiami Trail bridge proposed with the initial increment of the DOI Tamiami Trail
	Future Without (FWO) condition rather than Initial	Next Steps Project, operational updates to the CERP IRL-S Project, and operational
	Operating Regime Baseline 1 (IORBL1). In Section	refinements to the CERP BCWPA project (to reduce excess discharges to tide via S-29,
	C.2.2.7.13, two sentences are dedicated to	including accounting for the effects of the Lake Belt expansion assumed in the CEPP
	explaining impacts to Biscayne Bay when	FWO project condition), in addition to minor localized corrections to improve RSM-GL
	alternative 4R2 is compared to IORBL1. Please	representation of the S-9/9A operations and the L-28 weir.
	further clarify the difference of the JORBL1 and	

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COOMINGENIER	AGENCY/PUBLIC COMMENT TWO in relation to Biscayne Bay. Please explain how reasonable assurances will be provided to ensure that operations will be changed in order to prevent these negative impacts to Biscayne Bay. (See our comments on Annex D.)	Differences in performance when comparing Alt 4R2 to the FWO and IORBL1 in relation to Bissayare Bay are a result of estimated canal discharges at 5-29. After the development of Alt 4R, the project team evaluated potential improvements in water supply to the LEC. An in depth review of the model assumptions resulted in changes in the volume of water discharged to 5-29 (i.e. Northern Biscayne Bay). Average and the water canal discharges to northern Biscayne Bay are affected by the assumed operations of the CERP BCWPA project. Operations of the BCWPA project were updated from the FWO to IORBL1 to better represent the desired BCWPA project outcomes (consistent with the BCWPA PR], which resulted in less water being directed to the C-9 canal and reduced 5-29 discharges. It was also identified that as an artifact of an assumed Lake Belt expansion in the FWO, there was too much water being exchanged in RSM-GL between the lakes and canal network. In the FWO, water was moving easily out of the lakes and into the C-9 Canal, resulting in higher discharges out of 5-29. In the IORBL1 and Alt 4R2 the lake/canal exchange was more restricted in the model, resulting in less flow out of 5-29 (this assumption was consistent with the Lake Belt permit requirements for the miners to avoid or compensate for increases in groundwater seepage). Federal laws and regulations applicable to implementing the CERP require PRs to address certain assurances as part of the project recommendation for approval and subsequent implementation. For the CEPP PIR, the analyses for CEPP associated with Section 601(h)(4) and 601 (h)(5) of WRDA 2000 and the Programmatic Aguilations for the CERP (33 CFR part 385) for Project-Specific Assurances and Savings Clause requirements are mer per PPA, per applicable policies and laws. NEPA documentation will be updated, if applicable, a pervision ser policies and laws. NEPA documentation will be updated, if applicable, and laws are visions are made to Water Control Plans and other Control Plans ard of Project Oberdi
		PPA. Compliance with the requirements of the Savings Clause will be maintained throughout the entirety of the CEPP implementation period. In addition, guidance has been provided in the Adantive Manasement Plan (Sertion 14.4.2 of Annex D) to
		specifically address potential changes to freshwater flow brought about by the project and potential negative impacts to Biscavine Bay.
FDEP-27	Appendix E Plan Formulation: Several tables in	Thank you for the comment. Formatting issues have been resolved,
	this chapter have formatting issues where the text	
	is not legible (text on top of text) or not visible.	
	Example, Table E1-45 is in part not legible because	

Information	
Pertinent Correspondence	

Appendix C.3

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	of double print formatting, Table E1-42 is cut off; the last row missing portion of text. Please revise	
FDEP-28	Section E.1.5, page E1-30: The expected cost range of the FEB is given as 360-550 million (\$ is missing). These figures do not match the costs provided in the table on the next page (Table E1-18), nor do they match the preliminary estimates used during plan formulation (\$175 million). Please explain how the costs were determined. The PDT estimated approximately \$1.2 billion estimate during the screening process for the cost of the 12-foot-deep reservoir, whereas Table E1-18 shows approximately \$2 billion. Please provide an explanation regarding the change in cost estimates here and in Appendix B.	The \$ sign will be added. The initial costs developed were for comparative purposes only and were not actual construction costs. Costs were prepared using parametric planning spreadsheet tool vetted through the PDT as they were prepared. Costs for screening and ATR were further updated as process moved from screening to attentative development then plan selection. The process included an abbreviated Cost Schedule Risk Analysis which produced the costs in Appendix B.
FDEP-29	Table E1.44 and Table E1.45: These tables appear to utilize preliminary cost estimates that were used during screening. Please explain how the costs for this section were derived. We also recommend reviewing this section to ensure that a consistent approach was used in this section and elsewhere in the PIR. These costs do not appear to match the higher cost estimates that are provided in Appendix B. Additionally, the Cost column needs units displayed.	Unlike tradition planning level cost estimates, which have typically included very minor contingencies on the price estimates, the CFPP team took a risk based approach and used a high contingency (82%) for a risk based formulation approach due to the high level of unnertainty when dealing with alternatives concepts. The initial costs developed were for comparative purposes only and were not actual construction costs. Costs were prepared using parametric planning spreadsheet tool vetted through the PDT as they were prepared. Costs for screening and ATR were further updated as process moved from screening to alternative development then plan selection. The process included an abbreviated Cost Schedule Risk Analysis which produced the costs in Appendix B. Detailed refinement of the TSP led to a slightly higher construction cost but a lower contingency (42%). This refined contingency resulted in a lower overall cost. There was also minor savings identified through the use of the value engineering workshop that courred between the formulation and draft PIR publication. Units will be displayed on Tables.
FDEP-30	Annex B Analysis Required by WRDA 2000 (Project Assurances): Section B, Table B4 dientifies Biscayne Bay as an existing Legal Source User under (v) Water supply for fish and wildlife. Since Biscayne Bay is part of the Savings Clause, as noted above, monitoring may need to continue for longer than the durations listed in Annex D. Please review and	For the CEPP PIR, the analyses for CEPP associated with Section 601(h)(4) and 601 (h)(5) of WRDA 2000 and the Programmatic Regulations for the CERP (33 CFR Part 835) for Project-Specific Assurances and Savings Clause were conducted for the recommended plan. Should the recommended plan be implemented in multiple PPAs, the USACE District Engineer will ensure that Project-Specific Assurances and Savings Clause requirements are met per PPA, per applicable policies and laws. NEPA documentation will be updated, if applicable, as revisions are made to Water Control Plans and/or Project Operating Manuals associated with each PPA. Compilance with

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	revise as necessary.	the requirements of the Savings Clause will be maintained throughout the entirety of the CEPP implementation period.
		Following construction and implementation of CEPP components, additional CEPP project monitoring for Savings Clause compliance is not presently anticipated.
FDEP-31	Section B.2.1 (page B-6) states that Compared to the FWO baseline the updated IORBL1 indicates a significant hydrologic difference with response to the St. Lucie Estuary and Biscayne Bay, with other portions of the CEPP Project area performing similar to the FWO. A summary of these performance differences between the FWO and IROBL1 is provided in Appendix C.2.2 for St. Lucie Estuary and Biscayne Bay. Comment: This hydrologic difference is not adequately explained in Appendix C. Please texis accordingly. See Appendix C, Section C.2.2.7.13 comment above.	Detailed description of FWO versus IORBL1 operational assumptions for IRL-S project features will be copied from the final MDR reports.
FDEP-32	Annex C: The Draft Project Operation Manual does not provide any detail regarding implemental deliveries to Biscayne Bay to meet the conditions simulated during modeling. Since the supplemental deliveries were a critical component of meeting the savings clause analysis for water related needs for Biscayne Bay, please provide some discussion of what is planned in the Draft Project Operation Manual.	Compared to the future without project condition (ERTP operations), the CEPP TSP modeling includes changes to the operational triggers at 5-335, 5-338, G-211, 5-176, 5-177, and 5-18C structures within the South bade Conveyance Systam (SDCS). These mew operating criteria are summarized in Table 4 of the DPOM (Appendix C of the CEPP PIR). Most notably, all CEPP action alternatives, including the TSP, no longer include Column 2 operations that were previously specified for these structures within the previous 109 and the current ERTP operational plans. Water management observation and the L-29 canal and L-31N Canal, and the ENP SDCS. The 5-338, 5-194, and 5-136 coastal ridge structures discharge toward the coastal structures along Biscayne Bay, CEPP only changes the operational triggers for 5-338. These operational triggers were unchanged between Alternative 4R and Alternative 4R2, and the NEPA seessment of Biscayne Bay canal inflows actually indicated a further additional adverse effect compared to Alternative 4R due to the increased Public Water Supply demand of 12 MGD for LECSA 2 and 5 MGD for LECSA 3 (Table 5.2.1 in Section 5).

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		Savings Clause assessment is principally the result of updated information and changes to the operational assumptions for the CRP BCWPA project (as further described below) in the future without project condition, which were then retained in Atternative 4R2. The revised IORBI updated the PWO to include the final SFWMD proposed operational intent for the Restoration Strategies Project, the 2.6 mille western Tamiami Trail bridge proposed with the initial increment of the DOI Tamiami Trail Next Steps Project, operational updates to the CRP IRL-5 Project, and operational refinements to the CRP BCWPA project (to reduce excess discharges to effect was 5-29, including accounting for the effects of the Lake Belt expansion assumed in the CEPP FWO project condition), in addition to minor localized corrections to improve RSM-GL representation of the 5-9/9A operations and the L-28 weir.
		Differences in performance when comparing Alt 4R2 to the FWO and IORBL1 in relation to Biscayne Bay are a result of estimated canal discharges at 5-29. After the development of Alt 4R, the project team evaluated potential improvements in water supply to the LEC. An in depth review of the model assumptions resulted in changes in the volume of water discharged to 5-29 (i.e. Northern Biscayne Bay). Average assumed operations of the CERP BCWPA project (included in the future without project condition). Operations of the BCWPA project (included in the future without project condition). Operations of the BCWPA project outcomes (consistent with the BCWPA PRI), which resulted in less water being directed to the C-9 canal and reduced 5-29 discharges. It was also identified that as an artifact of an assumed Lake Belt expansion in the FWO, there was too much water being exchanged in RSM-GI between the lakes and mad canal network. In the FWO, water was moving easily out of the lakes and into the C-9 Canal, resulting in higher discharges out of 5-29. In the IORBL1 and Alt 4R2 the lake/canal exchange was more restricted in the model, resulting in less flow out of 5-29 (this assumption was consistent with the Lake Belt permit requirements for the miners to avoid or compensate for increases in groundwater seages.
FDEP-33	Annex C, page C-14, Figure 3-6 South Dade	Annex C, page C.14, Figure 3-6 South Dade All of those maps use the same legend. Figure 3-6 shows S-356, which is temporary,

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	Conveyance System Map has an icon in the Legend	and is shown on the map, but its' icon is covered by another icon.
	for a Temporary Pump but none are visible on the	
	map. If there are Temporary pumps, please	
	identify them and coordinate with the SFWMD to	
	ensure the most recent shapefiles were used.	
FDEP-34	Please provide the shapefiles used to make line	Shape files will be added to the working files.
	segments, points, and areas for Alternative 4R2.	
FDEP-35	Annex C, DPOM, Section 4.7: Capitalize "Seaside	Text does not need to be modified. Do not concur.
	Sparrow".	
FDEP-36	Annex C, DPOM, page C-27, last sentence of first	These are two separate issues. The recent draft EA is for a temporary deviation due
	paragraph states, "a one-year field test to	to high water conditions and not for the field test.
	incrementally relax the G-3273 operational	
	constraint is under consideration for 2013-2014."	
	The recent draft EA actually extended into January	
	2015. Please correct.	
FDEP-37	It appears that the S-152 currently under	S-152 is planned to be a temporary structure and is scheduled to be removed upon
	construction as part of the Decomp Physical Model	completion of the DPM.
	is not referenced in this Annex or main report.	
	Pages C-12 to C-13, Figure 3-4 WCA-3A Map and	
	Figure 3-5 WCA-3B Map. Please reconcile.	
FDEP-38	Annex D Adaptive Management: Section 1.4.4.2	Thank you for your comment,
	and Figure D.1,11: This section covers the CEPP	
	Hydrologic Effects on the Lower East Coast	
	Ecosystems and it covers the CEPP Uncertainty	
	#62: Will the constructed and operational	
	features of CEPP reduced surface and/or	
	groundwater base flows and	
	wetland/groundwater recharge to the east of the	
	L-30 and L-31N in areas such as the Pennsuco	
	Wetlands, south Miami-Dade wetlands, and	
	Biscayne Bay? The adaptive management plan	
	provides monitoring attributes and timeframes,	
	thresholds, and suggested management options.	
FDEP-39	Timeframes and Attributes: It is unclear when the	The meaning of the timeframes has been clarified with the following text added to
	monitoring timeframes for each of the attributes	monitoring timeframes for each of the attributes the document on page 10: "The "timeframe in which changes will be measurable"
	will be started and completed. For the attributes	will be started and completed. For the attributes does not imply that changes will be complete in that timeframe; rather, the

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	that have listed only a 7-day time frame, please	timeframes provide an estimate of time needed to begin to be able to distinguish
	period or if multiple	to have attributes measurable within the time of the AM Plan, which in some cases
	seriods a	necessitated a 'proxy' attribute to be measured that would represent expected
	example, wetland and canal/creek stage	changes on a longer time scale." In addition, where each timeframe is provided
	monitoring is proposed for 7 days. It is unclear	throughout the document the following clarification was provided: "Estimated
	how one monitoring event can determine long	timeframes to begin perceiving changes are listed below in parentheses The
	term effects.	attributes to be measured and time needed to begin perceiving changes are the
		following (these time frames are indications of speed of response, not limits on the
		monitoring to be conducted)"
		Please see Section 1.5 Implementation of CEPP Adaptive Management and associated
		figures for more detail on the estimated start- and stop-times for each adaptive
		management strategy. This will be used for future refinement and coordination of
		the CEPP adaptive management and monitoring with CERP agencies, via RECOVER.
FDEP-40	Timeframes and Attributes: The selected	Thank you for your comment. Please see FDEP-39 response.
	durations for the nine attributes should be	
	timeframes are not long enough to see if the	
	proposed thresholds are exceeded.	
FDEP-41	Triggers and Thresholds: The 3rd paragraph	Thank you for the update. Change made in document.
	Bay reservation as "proposed" instead of	
	"approved." Please revise, as the rule was adopted	
	July 2013.	
FDEP-42	Thresholds and Management Options: The	The following response was coordinated with FDEP and added to the adaptive
	management options state that there will be	management plan: "The CEPP Operating Manual will undergo several updates and
	changes in operations for Biscayne Bay if any of	refinements over time as explained in Section 6 of the CEPP PIR and in the current
	the thresholds are exceeded. The operations as	CEPP Operating Manual (Annex C). The triggers, thresholds, and knowledge gained
	they impact Biscayne Bay are not discussed in the	over time will be used in future modeling and updates, and the Operating Manual will
	Draft Project Operation Manual (Annex C) and,	be developed in coordination with and consistent with the CEPP Adaptive
	therefore, it is not clear how the operations can be	Management Plan."
	modified to address the exceedances of proposed	
	thresholds. The current operation plan is driven	The following note has been added to the Operating Manual introduction to indicate
	by stage triggers and since most of the	that future updates will be consistent with and in coordination with the adaptive
	management options are not stage related, the	management plan: "The POM will undergo several updates and refinements over
	integrations need clarification. Please review and	time as explained in Section 6 of the CEPP PIR and in this document. The triggers,

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	address appropriately	thresholds and knowledge gained over time will be used in fitting modeling and
		updates, and the POM will be developed in coordination with and consistent with the
43	Figure D 4 44 sees 4 06. This figures shows that	CEFF Adaptive Malagement right.
FDEP-43	Figure D.1.11, page 1-96: Inis rigure shows that	In coordination with FUEP and SFWIMD, the following text was added to the adaptive
	that in your 7 with 2.9 yours of bacolino	
	monitoring The nost construction monitoring	"In addition project permits may require monitoring to confirm that the project is
	hoging in the post constluction monthly	in addition, project permits may require monitoring to commit that the project is sometimed within another project is
	pregnis in year 3 and enus around year 16. It	monitoring within applicable Savilles Clause and Assurances Tequirements. This
	appears that the overall monitoring will be	monitoring may exterio longer than the LO-year minit imposed on most adaptive
	ongoing for 10-11 years. Please note that since	management and ecological monitoring. If so, this monitoring may be extended for
	some of this monitoring is required for saving	an appropriate period according to the permit, and in coordination with the
	clause assurances, extended monitoring period	implementing agencies. Costs for the proposed monitoring, and potential extension
	may required. Please describe how the attributes	of permit-required monitoring periods, have been included in the Monitoring Cost
	ties into this monitoring schedule.	Table and in the CEPP project contingency estimations."
SOUTH FLORIDA	SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)	
SFWMD-1	Water Quality Requirements, Assumptions, and	Thank you for your comment.
	Cost Share: A fundamental assumption of CEPP is	
	that the SFWMD will treat 877,300 acre/feet of	
	water on average currently flowing into the	
	Everglades Protection Area (EPA) through the	
	central flow path of the Everglades Agricultural	
	Area (EAA) utilizing the facilities identified in the	
	state's Everglades Water Quality Restoration	
	Strategies Plan finalized in 2012. The state of	
	Florida has established its commitment to	
	complete Restoration Strategies through passage	
	of House Bill 7065 in 2013, which provides a	
	recurring dedicated source of funds to implement	
	the \$880 million plan. The Recommendation	
	Section of the PIR in Paragraph v. recognizes that	
	all features of the state's Restoration Strategies	
	must be completed and meet state water quality	
	standards prior to initiating construction of most	
	CEPP project features. The Corps must continue to	
	recognize that CEPP can only be implemented	
	once the SFWMD is in compliance with the	
	requirements of the National Pollutant Discharge	
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	P project features mu lity standards. The Reco	
	in Paragraph w. acknowledges the interdependencies of and the necessity for phased	
	implementation in order to assure water quality	
SFWMD-2	Use of Existing SFWMD Owned Lands in Project	Section 3.2.1.2 presents the analysis that was used to identify the project footprint to
	Formulation: It has been clearly communicated to	be used for the storage and treatment features identified in CEPP. In order to
	the public and stakeholders that the CEPP will	determine the most appropriate location for project features , and identify the
	focus on the initial increment of restoration for	federal interest in the project, there were many factors involved in identifying the
	increment to be implemented in the most	specific location for the project reatures, including existing infrastructure, socio- political and environmental issues, hydrology and construction efficiency. The siting
	expeditious and cost effective manner,	analysis identified the 28,000 acre A-1 and A-2 footprints as being the largest, most
	formulation of CEPP project features must be	efficient footprint for this increment of CEPP.
	undertaken utilizing lands currently owned by	
	SFWMD. The Tentatively Selected Plan (TSP)	
	meets this requirement. If there are any proposed	
	changes to the TSP, these must be limited to lands	
	within state ownership. The SFWMD will not	
	support a CEPP TSP that requires additional land	
	acquisition for storage and/or treatment for this	
	initial increment.	
SFWMD-3	Completion of Modified Water Deliveries to	The Corps is re-initiating pursuit of operational testing (relaxation of G-3273 gage
	Everglades National Park and Development of	operational constraint and S-356 test) to utilize the constructed Modified Delivery
	an Operational Plan: Planning, design and	Project features. Planning for the G-3273/S-356 field test has started but is not
	construction of the features associated with	complete and necessary approvals (including FDEP) have not been attained.
	Modified Water Deliveries to Everglades National	Information from the test will be used to develop the Final Water Control Plan for the
	Park is 100 percent the responsibility of the	
	federal government (see Everglades National Park	Shark River Slough to Northeastern Shark River Slough. The Corps anticipates an
	Protection and Expansion Act of 1989, Sec. 104 (16	operational plan and completion of MWD prior to CEPP implementation.
	U.S.C. 410r-8)). Certain project features that were	
	originally envisioned to be completed as part of	As outlined in the C&SF Comprehensive Review Study (USACE 1999), the CERP plan
	Modified Water Deliveries have been refined in	included the removal of the Modified Water Deliveries Project S-356 pump station
	the CEPP planning process and are included in the	and the addition of two new 900 cfs pump stations as part of component (FF). The
	TSP. These include surrogates for the following	plan also included three gated culvert structures in the southern reach of the L-67A
	components:	levee (component AA). Section 6.9.8 has been added to the CEPP PIR and includes a
***************************************		discussion of the comparison of the CEPP proposed features to relevant components

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	1. S-345A, S-3458 and S-345C	of the CERP Plan.
	2. S-349A, S-3498 and S-349C	
	3. S-356 Pump (1,000 cfs)	
	4. Degrading the remaining five miles of the L-67	
	Extension Canal and	
	Levee	
	SFWMD agrees to cost share construction and	
	operation of the surrogate features developed for	
	CEPP under the CERP authority, Section 601(e) of	
	the Water Resources Development Act of 2000.	
	a.	
	Modified Water Deliveries that are either	
	completed or under construction. See PIR at Sec.	
	2.5.7. These features must be finished and a water	
	control plan developed as a precursor to CEPP	
	implementation. The additional water identified	
	in CEPP cannot be brought south until Modified	
	Water Deliveries is fully operational.	
SFWMD-4	OMRR&R Cost Share and Integrated Operation of	The CEPP plan and PIR includes recommendations to seek Congressional
	State Facilities: In order for CEPP to be	authorization for cost-sharing the OMRR&R costs associated with the increase in
	implemented in the most cost effective and	water flows through relevant State Facilities. Section 6.6.2, Section 8, and Appendix B
	efficient manner, integration with state owned	include the relevant details of the proposed cost share percentage, how the cost
	and operated facilities is required. Section 8	share percentage was derived, what structures are eligible and the estimated costs.
	District's Engineers' Recommendations of the PIR	
	sets forth this understanding and includes a cost	
	share percentage of 9.5% for the operation,	
	maintenance, repair, replacement, and	
	rehabilitation (OMRR&R) costs of the state	
	facilities used by CEPP. It also clearly defines the	
	state and federal roles; the state and the Corps	
	have joint responsibility over OMRR&R decisions	
	for the integrated Flow Equalization Basin feature,	
	while the state retains sole authority over	
	OMRR&R decisions for state owned facilities. The	
	Corps must continue to recognize the state's	
	sovereign role in operations of state facilities	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	whose primary purpose is to ensure compliance	
	with state water quality standards. Moreover, the	
	Governing Board has stated in the attached	
	Resolution that the OMRR&R cost share issues of	
	state-owned and operated facilities to be used by	
	CEPP will need to be resolved in a manner	
	favorable to the SFWMD and such cost-share	
	responsibility included in the CEPP Final PIR/EIS.	
SFWMD-5	Phased Implementation and the Need for	The USACE has maintained ongoing communications with the SFWMD throughout
	Multiple Project Partnership	the preparation of the Draft PIR/EIS and has continued to do so for the Final PIR/EIS.
	Agreements: The PIR recognizes that CEPP will be	The USACE has provided the SFWMD the opportunity to review any suggested
	implemented over an extended time frame. As a	revisions that will appear in the Final PIR/EIS.
	result, CEPP is composed of implementation	
	phases that include features or logical groupings of	
	plan features. The PIR also recognizes	
	dependencies on both CERP and non-CERP projects	
	that must be in place prior to the implementation	
	of CEPP. Many of these will require integration	
	into the sequencing of CEPP to avoid unintended	
	adverse consequences, and to allow for restoration	
	benefits to be achieved as early as possible.	
	Moreover, the SFWMD and the Corps will need to	
	ensure that the cost share balance for CERP	
	implementation is maintained over this extended	
	implementation period. The Recommendations	
	Section of the PIR at Paragraph y. contains	
	language recognizing these contingencies and the	
	important role of the Adaptive Management and	
	Monitoring Plan in shaping the implementation	
	phases. It specifically identifies the ability of the	
	SFWMD and the Corps to enter into individual	
	Project Partnership Agreements (PPAs), or	
	amendments to existing PPAs for construction of	
	each implementation phase. The flexibility	
	provided by this language is essential to successful	
	CEPP implementation given the uncertainties	
	associated with the lengthy implementation period	
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COMMENTER	AGENCY/PUBLIC COMMENT CO	CORPS RESPONSE
	and the inevitable improvement in scientific	
	knowledge about the functioning of the greater	
	Everglades that will occur as planned CERP and	
	Non- CERP projects are completed.	
	In the Resolution approxing the draft PIR's release	
	for public review and comment, the Governing	
	Board acknowledged that the document is subject	
	to further review by the public, state and federal	
	agencies as well as the Corps headquarters and	
	Department of the Army. The Board specifically	
	required that any substantive changes must be	
	reviewed and approved before release of the Final	
	PIR. It is critical that the Corps follow through with	
	the commitments contained in the	
	Recommendations Section of the Draft PIR. Any	
	changes to the agreed upon language could impact	
	SFWMD's ability to accept the role of the local	
	sponsor. Governing Board direction has been	
	clear, the Board expects to see the agreed upon	
	language contained in the Recommendations	
	Section mirrored in the Chief of Engineer's Report	
	and Record of Decision for the CEPP Project.	
FLORIDA FISH AN	FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)	
FWC-1		The species have been added to Sections 5.1.4, 5.1.5, 5.2.4 and 5.2.5 as
		recommended,
		The compliance with the Bald and Golden Eagle Protection Act is described in Section
	butterfly (Cyclargus thomasi bethunebakeri) should 7 a	7 and Appendix C.4.
	be included in the list of federally listed species	
	(listed as Endangered). In addition, we would add	
	the following species:	
	Common Name Scientific Name Status*	
	Audubon 's crested Polyborus plancus FT	
	caracara audubonii	
	jaanduhananduhanii I	

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COMMENTER	AGENCY/PUBLIC COMMENT	OMMENT		CORPS RESPONSE
	Bald eagle	Haliaeetus	*	
	Burrowing owl	Athene cunicularia	SSC	
	Florida sandhill <i>Grus</i>	Il Grus canadensisST	sST	
	Osprey (Monro	(Monroe <i>Pandion haliaetus</i>	SSC	
	Roseate tern	Sterna dougalliiFT	14/	
	Southeastern	Falco sparverius paulusST	sST	
	* SSC - Species of	- Species of Special Concern; ST	- State	
	Threatened; FT - Fe	Threatened; FT - Federally Threatened;		
	**While the baid	**While the baid eagle has been both state and	tate and	
	baid eagle rule an	redefaily defisited , it is suif governed by the state baid eagle rule and the federal Bald and Golden	Golden	
	Eagle Protection	Eagle Protection Act (see http:// myfwc.com	fwc.com	
	/docs/Wildlife H a	/docs/Wildlife H abitats/ Eagle Plan April 2008	ril 2008.	
	pdf#page=35)			
FWC-2	High water stages	High water stages in WCA 3A/Tree Islands/Wet	nds/Wet	The AM plan is designed to prevent unintended degradation of the ecosystem due to
	Prairie: Recommer	Prairie: Recommendation: The FWC has revisited	revisited	scientific uncertainty. The Aivi plan presents a variety of management options to
	the recommendati	the recommendations that the FWC's predecessor	decessor	evaluate and adjust CEPP operations.
	agency, the Florid	agency, the Florida Game and Fresh Water Fish	ater Fish	
	Commission, had p	Commission, had provided the U.S. Army Corps of	Corps of	The RSM-GL hydrologic modeling for CEPP indicates that the WCA 3A 3-gauge
	Engineers in 1980	Engineers in 1980 (Schortemeyer 1980) and the	and the	average stage exceeds the indicated threshold of 10.2 feet NGVD for approximately
	July 1, 2010, Ut	July 1, 2010, USFWS Multi-Species Transition	ransition	26.0 percent of the 1965-2005 period of record for the FWO and 27.3 percent of the
	Strategy for Water	Strategy for Water Conservation Area 3A (U.S. Fish	U.S. Fish	period of record for the TSP (Annex A-2 of Appendix A, Figure 19-20 in the draft PIR).
	and Wildlife Servin	and Wildlife Service 201 0). Both take a multi-	a multi-	The WCA 3A 3-gage average mean daily stage hydrograph for the period of record
	species approach	species approach and were based on research in	search in	(Annex A-2 of Appendix A, Figure 47 in the draft PIR) indicates that WCA 3A water
	WCA 3A, The for	WCA 3A. The former addressed four species or	oecies or	levels for the TSP, on average, exceed 10.2 feet NGVD between 10 October and 25
	suites of species: 1	suites of species: the deer, the alligator, passerine	oasserine	November (47 days). The EN-W performance assessment for the final array of
	birds, and the pig	birds, and the pig frog. The latter addresses tree	sses tree	alternatives further reviewed the WCA-3A stage hydrographs for individual years in
	islands, wet prairie	islands, wet prairies, wood storks, Everglade kites,	de kites,	which the number of days above Zone A increased
	and apple snails.	and apple snails. We find that these key fish and	fish and	by more than 20 percent between the CEPP FWO and any of the CEPP alternatives, as
	wildlife in WCA 3A	wildlife in WCA 3A are best served by water stages	er stages	shown highlighted in Table 5 and Table 6 of Annex A-2. Annual hydrographs are also
	no higher than 10	no higher than 10.2 feet National Geodetic Vertical	Vertical	provided for each of the twelve years which triggered this further detailed
	Datum (NGVD) by	Datum (NGVD) by late October to early November	ovember	assessment (Figures 25 through 38): 1969, 1980, 1983-1985, 1993-1996, 1999, 2003,
	and then a gradual	and then a gradual and steady recession to a low of	a low of	and 2005. Additionally, the top of the current ERTP WCA 3A Regulation Schedule
	near 8.2 feet NGV	near 8.2 feet NGVD by late May to early June as	June as	(Zone A), which is retained with the TSP as the stage trigger for maximum WCA 3A
	measured by the ti	measured by the three-gauge average of the G-63,	he G-63,	regulatory releases, varies seasonally between 9.5-10.5 feet NGVD, with the Zone A

COMMENTER AGENCY/PUBLIC COMMENT CORPS RESPONSE Commenter And G-65 gauges (accuming their plaustions trigger plaustion exceeding 10.3 feet M

G-64, and G-65 gauges (assuming their elevations are 8.8, 8.5, and 7.4 feet NGVD, respectively). At a that time, water levels would increase back to no higher than 10.2 feet NGVD again by the end of TO-ctober to early November. During extreme is storms or unusually wet seasons, water levels may rise above the desired high levels, but even then depths should not exceed an average of 2.46 feet pfor longer than 60 days. Water levels for the two-pgauge average at the 62 and 63 gauges should not exceed 11.6 feet NGVD (or 10.8 feet for the three-gauge average). If this is to occur, remediating nactions must be taken to drop levels within seven

water inputs into WCA 3A (and ultimately into that would avoid invasion of cattails due to remobilization of nutrients. Recognizing that it would be beneficial to rehydrate this area and remobilization, we strongly recommend that CEPP take an incremental approach to introducing more water into northern WCA 3A. This approach would the Project Implementation Manual to adjust WCA 3B and Everglades National Park) in a manner increased nutrient levels. It would also allow for decrease the chance of flooding tree islands and The DPIR/EIS acknowledges that rehydrating the northern part of WCA 3A may result in the begin to restore peat-accretion processes and nutrient be consistent with the principles of adaptive in monitoring vegetation changes in the currently dry areas and in allowing refining the operation of the new structures to for wet prairies beyond their tolerances. potential management both tþe recognizing

trigger elevation exceeding 10.2 feet NGVD for 161 days between early September and mid February.

The northwestern region of WCA-3A, where a 2.5 mile spreader-canal will functionally replace the Miami Canal, will most likely exceed this two-foot limit during tructionally replace the Miami Canal, will most likely exceed this two-foot limit during castreem bydrologic events. The CEPP AM plan will work with FWC to use fire to create preferential flow paths that will accentuate sheetflow and minimize excessive ponding. This NW region of WCA-3A has become a dense bank of willow and does not provide the elevation mosaic or the plant diversity needed to support FWC "imperiled species" nor CERP key indicators of restoration, such as prey-based fauna (i.e., crayfish and fish). Preferential flow paths will "jump-start" the elevation mosaics needed to restore the ridge-slough-tree island landscape.

The creation of tree islands along the Miami Canal in northern WCA-3A is expected to provide the plant and animal diversity that meet the ecological goals of CEPP and the FWC. High water events are natural, but need not be catastrophic for deer and other terrestrial species. CEPP will continue to coordinate and work with the FWC on tree island construction and management. CEPP made a concerted effort to not increase EWMA closures. Despite the additional 210,000 acre-ft of new water to the Everglades, the RSM-GL hydrologic modelling indicates that the TSP caused EWMA closures twice, in 1994 and 1995. According to the 2-gauge average north of Alligator Alley, the duration of the 1994 event when water depths were over 2 ft for more than 60 days, were 146 days for the TSP, 151 days for the FWO, and 159 days for the ECB. According to the 2-gauge average north of Alligator Alley, the duration of the 1995 event when water depths were over 2 ft for more than 60 days, were 67 days for the FWO, 86 days for the ECB and 85 days for the TSP.

The Everglades is a slow moving system and big rain events can cause rapid and extensive ascension rates. Current operations, CEPP and ECB are not effective in preventing water from accumulating in the Everglades during the wet season. The CEPP AM plan will examine both operational and physical options to increase flow velocities and sheetflow

It is predicted that with implementation of the TSP, that the largest percent gains in daily average fish density would occur within northern WCA 3A and NESRS due to rehydration. The fish tools used in CEPP showed that in these areas, fish densities often increased in excess of 20%, with extremes of over 50%, however decreases in

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		fish density, or negligible changes (3%), were predicted in the area of WCA 3A along the Le7 A canal. An increase in density of small fishes will directly benefit higher trophic level predators such as wading birds. Therefore, it is predicted that the TSP will also provide a moderate beneficial effect for wading birds. Wood stork species distribution was modeled by Beerens (2013) and indicates that wood stork species distribution was modeled by Beerens (2013) and indicates that wood stork sould more frequently use areas of northern WCA 3A, WCA 3B, and southern ENP under the TSP compared to the existing conditions and FWO. Wading bird use is predicted to increase for wood stork clonies previously and/or currently located within WCA 3B (3B Mud East), along Tamiami Trail Tamiami Trail East 1, Tamiami Trail East 2, and Tamiami Trail West), and for several colonies located in ENP (Grossman West, Rookew Branch) for the TSP relative to existing conditions and FWO. Wading bird use is predicted to remain stable or decrease for several colonies located in southern WCA 3A adjacent to L-28 (Crossover, Jerport, Jerport South, Hidden) for the TSP relative to existing conditions and FWO; however there is potential for these wood stork colonies to utilize adjacent areas where foraging and habitat suitability are increasing.
FWC-3	Low water stages in WCA 3A: Tables 5.1-9 and 5.2-7 indicate that the EWMA is closed when water levels fall at or below a height of 9.16 feet NGVD, as indicated by the average readings at the 6.2 and 63 gauges. However, the actual closure criterion is at or below 9.30 feet NGVD. Recommendation: We request that the evaluation of low water closure days be recalculated using the correct criterion.	The current FWC criteria for critical low and high water levels were extrapolated to the entire 41 POR modeled for comparison purposes between alternatives. The days meeting closure criteria err on the conservative side and may not exactly match actual historic closures since FWC criteria have changed over time.
FWC-4	Water levels in WCA 3B: While aerial photographs of WCA 3B indicate that the pattern of ridges and sloughs has been somewhat obscured, this area contains some of the tree islands least affected by high water levels in the EWIMA. This is because this area has been subject only to what it receives directly from rainfall and what it loses from seepage and evapotranspiration. With the introduction of water into WCA 3B from WCA 3A, there will need to be careful monitoring of water.	The CEPP AM Plan (Annex D) for WCA 3B recognizes the sensitivity of tree islands, and as such recommends an incremental restoration of hydroperiods and water depths for WCA 3B based on the ability of these islands to accumulate peat. The Twin Heads tree islands were to fithe proposed L-67 D is currently being monitored by the SFWMD as part of the Decomp Physical Model (DPM) and is expected to set the criteria for how fast tree islands grow and accumulate peat as a function of longer hydroperiods, high flow velocities (which carry more nutrients and help trees cope with stress) and a pulsing operational design. The response of the Twin Heads is expected to be compared to other tree islands in WCA 3B where the depths will be lower and the hydroperiods shorter. This information would then be used as a feed

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	levels to ensure that inflows equal outflows. If	back to inform the operations of structures along the L-67A levee and is expected to
	high water levels and/or ponding occurs as a result	influence future CERP designs. AM strategies and management options for the
	of transferring water from WCA 3A to WCA 3B, this	Greater Everglades with respect to restoring tree island hydrology can be found in
	may result in adverse impacts to tree islands and	Section 1.4.2.3 of the AM Plan (Annex D).
	other natural vegetative communities, thus	
	impacting remaining functional or potential wildlife	
	habitat. Recommendation: We recommend that	
	the USACE and SFWIMD initially adopt the following	
	criterion for managing water levels in WCA 3B. If in	
	any year, depths in WCA 3B as measured at the 7-1	
	gauge for the eastern part and the EDEN 10 gauge	
	for the western part exceed two feet for more than	
	59 days, extensive monitoring of tree island health	
	will immediately begin. If significant stress to trees	
	is detected, operational steps must be taken to	
	achieve more favorable conditions during the	
	following water year to reduce stress on these key	
	Everglades landscape features. In the longer term,	
	we recommend that the USACE and the SFWMD	
	work with FWC and others as appropriate through	
	the adaptive management program to develop a	
	regulation schedule that supports the redirected	
	flows while avoiding harm to the tree islands in	
	WCA 3B.	
FWC-5	Levee construction: The L-67D levee would be a	WRDA 2000 requires (Savings Clause) that CERP does not reduce the level of service
	major new structure in the EWMA and its inclusion	for flood protection as of 2000 and in accordance with applicable law. The function
	seems counterintuitive to moving toward a more	and integrity of the C&SF flood protection system provided by the L-67 A and L-67 C
	natural system. Additionally, by proposing to	levee system must be maintained following CEPP implementation, and CEPP
	connect the new L-67D levee to the L-67A levee,	degradation of portions of the L-67 C and L-29 levees must be offset with additional
	Alternative 4R2 would pose a significant impact to	infrastructure and operational constraints that maintain the pre-project level of flood
	recreational fishing access in the L-67C canal and	protection and account for any potential increased design risk. The details of
	has the potential to cause environmental and	additional infrastructure, and how it would interface with operations and existing
	habitat impacts associated with construction.	infrastructure, will be determined in the future as adaptive management, Pre-
	Recommendation: We prefer that the new L-67D	Construction Engineering and Design (PED), and as other information becomes
	levee be constructed as one of the last	available for this area. Consideration of a new L-67 D levee (currently included as a
	components to come on line and only if it is shown	component of the CEPP recommended plan), including its footprint (width/height),
	through operational experience to be necessary. If	costs, and permanency, will be cautiously considered and subject to applicable

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	it is constructed, then we recommend that it be	policies and permitting.
	terminated at the L-67C levee so as not to impact	The Director forces will bises to C C December fighting his man best to the
	uns important usual y.	nethern end of the 1-57 C canal would continue to be available from a new public
		boat ramp located in the northern end of the L-67 C at S-151, providing a beneficial
		effect. Also at S-151, a new public boat ramp will allow access into the northern 5
7 (7)		miles of the Miami Canal south of S-151 not previously served by a public boat ramp.
rwc-b	Filling of the Miami Canal and removal of spoil	Inank you for your comment. During the planning process we worked directly with
	mounds: Public use of the Evergiades remains	FWC staff to ensure we preserved the nignest priority spoil mounds along the Miami
	strong. The canal system supports thousands of angle-hours of fishing offort: facilitates further	canal While Still meeting the need to backfill the Miami Canal and remove barriers to flow (enoil mounds) to restore cheafflow. The purpose of the Miami Canal backfill is
	travel into the area promotine hunting, fishing.	to render the Miami Canal invisible hydrologically and ecologically at a landscape
	boating, and wildlife viewing; and provides an	scale. While backfilling the Miami Canal from 5-8 to 1-75 will have a major adverse
	economic benefit to Florida and our local	effect on the access to recreational fishing by power boats, fishing opportunities
	communities. Our position during the Restudy	throughout the Greater Everglades will have a major beneficial effect by the
	that we do	improvements in boat access and the addition of access points around proposed
	filling canals that provide recreational	structures.
	opportunities unless it can be shown to be	
	necessary in order to accomplish hydrological	FWC will be included in the decision-making process during detailed design.
	restoration. The CEPP modeling suggested that	
	backfilling south to the S-339 structure provided	
	the most demonstrated benefits; additional	
	benefits from filling from the S-339 structure to	
	Alligator Alley were questionable. Thus, although	
	CEPP proposes to retain 22 of the FWC's highest	
	priority enhanced spoil mounds between the S-339	
	and Alligator Alley, the use of any spoil material as	
	fill in a recreationally important canal raises both	
	ecological and recreational concerns for the FWC.	
	We do, however, fully support reconstructing tree	
	islands across the footprint of the filled portions of	
	the Miami Canal in locations where they	
	historically were located. Recommendation: FWC	
	should be included in decision making processes	
	during detailed design to re-examine that	
	backfilling of the Miami Canal only be included as	
	far south as the S-339 structure.	
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FWC-7	Exotic Species: The projects' plans for detection,	Additional text will be added to the plan to clarify non-native fish issues/monitoring
	monitoring, and treatment/control of exotic	etc,
	species are largely covered in Annex G. While we	
	agree that exotic fish, wildlife, and vegetation can	Electrofishing is intended to be a monitoring tool not a control method. This section
	be cause for concern, we contend that there is	will be revisited and text revised if required.
	currently no evidence that exotic fishes in man-	
	made canals pose a threat to ecosystem function.	In reference to mechanical removal, please refer to response for FWC-26.
	(enclosed) that details this conclusion.	
	Furthermore, in our experience, electrofishing has	
	not been demonstrated to be an effective method	
	of eradication of exotic fishes, particularly those	
	known to be established in the construction	
	locations for the project. While the FWC supports	
	the pre- and post-construction monitoring and	
	early detection and rapid response (EDRR)	
	approach outlined, we do not support the use of	
	electrofishing to attempt to eliminate exotic fishes	
	from construction locations. Recommendation:	
	We request that Annex G be more value-neutral in	
	addressing the impacts of exotic fishes on canal	
	systems in the Everglades. Further development of	
	the discussion of mechanical control would also be	
	appropriate. Unless restricted to roads or levees,	
	our experience leads us to believe that the kind of	
	mechanical control described is not feasible in the	
	central Everglades. Additionally, we request a	
	clarification of the temporal and geographic	
	context of the statement in G.2.1.3 regarding the	
	dominance of Brazilian pepper in the canopy of	
	small tree islands. Currently, most tree islands in	
	EWMA are treated and in a state of maintenance	
	control,	
FWC-8	Sequencing will be a critical factor in achieving	The southern portion of WCA 3A is primarily affected by long durations of high water
	success via CEPP. The DPIR/EIS indicates that one	and lack of seasonal water depths created by impoundment structures (i.e., L-67 and
	of the later actions will be to remove the Old	L-29 Levees). Removal of the Old Tamiami Trail would slightly alleviate the high water
	Tamiami Trail. Recent events have shown that	conditions currently experienced in WCA 3A by potentially providing a small increase

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	water managers consider breaching it to be an important action contributing to a short-term solution to this year's high water levels, solution to this year's high water levels.	in the conveyance capacity of the S-12 structures. Removal of Old Tamiami Trail can be completed at any time during implementation of CEPP, but must precede backfilling of the L-67 Extension.
	Tamiami Trail be removed as early as possible in the implementation of CEPP so it no longer acts as a barrier to water moving south. Additionally, as part of the removal of the Old Tamiami Trail posarding the 1 30A foot asst-west errin that runs.	ENP supports removal of the Old Trail to improve discharge capacity of the 5-12's, however, there has not been a detailed technical analysis to support any estimation of increased flows. We do not see any problem with leaving the east-west borrow canal along the old Trail in place to help with water distribution.
	along the entire length of the Tamiami Trail that shares a boundary with ENP, we recommend an easement be established south of Tamiami Trail to facilitate road modifications, maintenance and water delivery. We further recommend during the removal of the old Tamiami Trail that the associated borrow canal west of L-67 Extension be	Comments identifying the need for an expanded maintenance easement have been provided on the Draft EIS for ENP - General Management Plan. For the area south of eastern Tamiami Trail within NESRS, ENP Draft GMP envisions the establishment of a maintenance zone to the south of the roadway. This zone would presumably allow a higher level of management intervention to help promote improved water flow (such as exotics removal, native vegetation thinning/clearing, and fire management).
	left in place to serve as a spreader canal incoming flows to promote sheetflow into ENP. Similarly, as part of this element, a spreader swale should be established south of Tamiami Trail east of the L-67 Extension to improve distribution of flows downstream.	As far as providing swales south of the eastern portion of the trail, the new additional bridging to be provided under the Next Steps project will be similar to the 1 mile bridge recently constructed in that the existing roadbed will be removed under the new bridging. This will provide for more uniform distribution of flows south of the trail much better than any swales in this area.
		In a longer-term effort, ENP also wants to specifically investigate options that would create preferred flow paths into NESRS that could presumably aide in the recovery of the historic ridge and slough micro-topography. As an example, we know from field microring right burning an area followed by continuous flooding tends to shift the vegetation away from dense sawgrass toward more open eleocharis and other slough vegetation.
FWC-9	Although current analysis of model outputs suggest sustained freshwater flow to Biscayne Bay, numerous concerns about real world performance were raised by a variety of stakeholders during plan formulation. We echo these concerns; it would be	Savings clause analyses described in Section 601(h)(5) of WRDA 2000, is a means to protect users of legal sources of water supply and flood protection that were in place at the time of enactment. Section 383.36 of the Programmatic Regulations require PIRs to determine if existing legal sources of water are to be eliminated or transferred as a result of project implementation. Comparison of the sum of mean annual

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	difficult for FWC to support a project that would decrease freshwater flows to Biscayne Bay. Many of the organisms in the bay, including the pink shrimp, which supports the number one commercial fishery in the bay, thrive in salinity ranges of 20-35ppt. Thus, any decline in freshwater flows to the bay could have negative impacts on ecological conditions in the bay and important recreational and commercial fisheries.	structure flows in the with project condition (Alt 4R2) to the without project condition (IORBLL) indicates the total inflows to Biscayne Bay are slightly increased with Att 4R2 (899 kAF for IORBLL; 865 kAF for Alt 4R2). All sub-regions of the Bay (north, central, south-central, and south) perform essentially the same relative to ecological performance measure targets used during the planning process. Water sources for fish and wildlife will not be diminished. See Section 6.8 (Project Assurances Summary) and Annex B (Analyses Required by WRDA 2000 &State Law). CEPP Uncertainty ID # 62 within the AM Plan currently addresses the ecological effects of CEPP hydrology on Biscayne Bay. See Section 1.4.4.2 of Annex D (Adaptive Management and Monitoring Plans) for reference. This section of the AM Plan currently notes the importance of Biscayne Bay as a Florida Outstanding Water and focuses on adaptively managing constructed and operational features of the CEPP in order to maintain the current level of surface and groundwater base freshwater flows to this area to where there is no change in the ecological condition of this region.
FWC-10	The discussion of recreation in Appendix F does not adequately address how CEPP could impact recreational access and opportunity. Repeated, legitimate concerns about impacts to hunting access and /or opportunities were raised by stakeholders during plan development and should be addressed. Given the potential for reduced carying capacity of deer and other mammals dependent on uplands, the potential for some loss of hunting opportunity is real.	The discussion of recreation in Appendix F does not additional access points for recreational and improves existing access and provides adequately address how CEPP could impact additional access points for recreational and hunting opportunities. Please refer to recreational access and or opportunities were raised by stakeholders during plan development and should be addressed. Given the potential for reduced dependent on uplands, the potential for some loss of hunting opportunity is real.
FWC-11	CEPP is striving to make significant increases in water deliveries to WCA 3A with limited storage components in the EAA or the Lake Belt. Staff is concerned that without sufficient storage capabilities in these areas, CEPP will lead to the continuation of the periodic extreme high water events that have been degrading wildlife habitat in the WCAs for decades.	High rainfall, landscape-scale sheetflow and high velocity water were critical elements of Everglades creation. CEPP goals, like DECOMP before it, have been focused on the need to increase flow and prevent ponding. We agree that the capacity of the current Everglades has been compromised. However, CEPP has added features that increase the outlet capacity of the WCA-3 such as the Blue-shanty flowway, significant increased capacity of the S-333 and the Old Tamiami Trail degrade to keep the water flowing.
FWC-12	Section 5: This section separates the comparison of effects among Alternatives 1 through 4 from the comparison of effects between Alternatives 4R and	The evaluation of alternatives 1 through 4 identified the need to revise the operations of Alt 4 to ensure the project savings clause constraints are met, to minimize localized adverse ecological effects, and to identify additional opportunities

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	4R2. The fact that the scale used to depict the	to provide for other water related needs. Alternative 4 was initially refined with
	stage duration curves for the first set of	operational changes to avoid potential impacts to water supply levels of service in the
	comparisons is different from the scale used for	LOSA and LEC, resulting in Alt 4R. Alt 4R was then refined further to determine if
	these graphs in the second set of comparisons	water supply cutbacks to the LOSA could be further reduced and to determine the
	makes it very difficult to determine how the	quantity of additional LECSA 2 and LECSA 3 public water supply able to be provided
	tentatively selected plan (Alternative 4R2 or TSP)	while maintaining the natural system performance realized for Alt 4R. Alternatives 4R
	compares with Alternatives 1 through 4.	and 4R2 were compared to and evaluated against the FWO to describe changes to
	Presenting the full range of alternatives in one set	future conditions with implementation of each CEPP action alternative. The scales on
	of stage duration curves for each region in the final	the stage duration curves in section 5.1 and 5.2 are the same, but the direct
	PIR/EIS would better document the decision for the	comparison cannot be made due to the reasons described above.
	finally selected plan.	
FWC-13	Table 5.2-1 has to be interpreted carefully and can	The differences between the future without project condition and the future with
	be unintentionally misleading. It would be easy to	project condition are the effects of the project, as indicated in Section
	think that the changes in water levels described for	2.1.Throughout Section 5 of the PIR (not only Table 5.2-1), all CEPP action alternatives
	Alternatives 4R and 4R2 are how they compare to	were compared to and evaluated against the FWO to describe changed conditions
	existing conditions, but they are actually compared	with implementation of each Central Everglades Planning Project (CEPP) action
	to the FWO condition. To understand what the	alternative. Comparison between the existing conditions and the action alternatives
	alternatives mean in terms of how different they	will not be directly included in the PIR, as this comparison does not distinguish
	are from the existing condition, one must first	between the effects of the intervening projects included in the FWO and the effects
	compare FWO against the existing condition and	of the CEPP action alternatives.
	then calculate how the alternatives compare	
	against the existing condition. We recognize that	Comparison between the existing and FWO condition is summarized in Table 2-1 and
	ElS 's must compare alternatives to FWO	further detailed in Appendix C.1. Comparison of action alternatives versus the
	conditions, but, in the interest of transparency, we	existing condition does require first comparing the FWO against the existing condition
	recommend including how they compare against	(Appendix C.1), and then comparing the action alternatives against the FWO (Section
	the existing conditions.	5),
FWC-14	Throughout Section 5, WCA 3B is predicted to have	Snail kite analysis in Annex A shows that slight improvements to apple snail depth
	increased hydroperiods that would be of benefit to	ranges occurred in 3B (3B-71 and 3BS1W1). As compared to the existing conditions
	snail kites, but from review of model output (stage	and FWO, increased hydroperiods within WCA 3B and ENP would increase suitable
	duration curves), staff could not find any	
	improvements for WCA 3B. The difference in	opportunities for Everglade snail kites.
	hydroperiods as shown in Figure 6-8 does not	
	appear to show any improvements. Figure 6-9	Appendix A (Engineering), Appendix A-2 (Hydrologic Modeling), Reference 6 includes
	indicates only marginal improvements on the east	the RSM-GL stage output maps, RSM-GL hydroperiod output maps, stage difference
	side, and Figure 6-10 shows improvement to WCA	maps for Alt4R2 compared to each baseline, and hydroperiod difference maps for
	3B in that portion west of the Blue Shanty.	Alt4R2 compared to each baseline; hydroperiod and hydroperiod difference maps are
		provided for wet (1995), dry (1989), average (1976), and average annual conditions

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		for the complete period of record (1965-2005). Complete RSM-BN and RSM-GL
		hydrologic model performance measure output are posted on the Everglades Plan
		public web site for the CERP, as indicated in Section 5.2 and Appendix A:
		http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx
		Figure 6-7 and Figure 6-8 only illustrate hydroperiod differences for a representative
		dry year (1989) and wet year (1995), respectively; no hydroperiod difference would
		be expected for 1995, since WCA 3B experiences surface water ponding throughout
		the year in both the FWO and ALT4R2 conditions.
FWC-15	Sections 5.1.6.2 and 5.2.6.5 state that although	Section 5.1.6.5 states that CEPP implementation may negatively affect some
	deer may be impacted by the removal of levees	mammals dependent upon upland habitat. Due to increased water flow and changes
	and lower tree islands being inundated in WCA 3B,	in water distribution it is anticipated that overdrained areas northern WCA 3A will be
	the remaining portions of CEPP will see no	rehydrated, triggering a vegetation transition from upland to wetland habitat.
	significant effects on mammals. However, this is	Although mammals occurring within the action area are adapted to the naturally
	not true since northern WCA 3A will likely	fluctuating water levels in the Everglades, there is an increased potential for this
	experience increased depths. Increased depths for	vegetation transition to have a moderate adverse effect negatively affect mammals
	longer periods of time will likely reduce foraging	using upland habitat. Similar language about mammals that are dependent upon
	areas and limit carrying capacity of deer and other	upland habitat is included in the third paragraph of Section 5.2.6.5.
	mammals dependent on uplands.	
FWC-16	Table 5.1-2 and 5.2-1 characterize a drop in water	For many years WCA 2A has been too deep for too long. The attempt in the late
	level by 0.05-0.75 feet as a major adverse impact	1960's to restore pre-drainage water levels did not consider the elevation loss
	and drop of 0.25-0.50 feet as a moderate impact,	associated with soil oxidation and subsidence due to drainage. When historic water
	respectively. WCA 2B has consistently experienced	levels were returned it was too deep for tree islands and southern WCA 2A sawgrass
	high water levels for a number of years, so a	ridge communities, and these habitats were destroyed. To compensate, the WCA 2A
	decrease in water levels in this area should be a	regulation schedule was "improved" by creating a 4-month dry season where water
	benefit for wildlife.	depths were allowed to go negative for extended periods of time. In reality, WCA 2A
		often received very high inflows during the wet season and did not "dry out" during
		the dry season because outflow structures were managed for water supply. This
		type of water level management is not restorative for WCA-2A. CEPP is designed to
		increase sheetflow everywhere. This means that inflows into WCA 2A must supply
		WCA 28 for water supply and must keep northern WCA-3A hydrated during the dry
		season. This "extra" demand requires that current inflows be maintained, but
		managed better to 1) prevent extreme high water levels, 2) keep water in the sloughs
		for 10-11 months per year, almost every year, and 3) create sheetflow. Simply put;
		FWO average water levels provide the flexibility and hydraulic head needed to create
		sheetflow and a restorative hydroperiod across most of WCA 2A. Loss of this
		hydraulic head will degrade CEPP's ability to restore ridge-slough-tree island

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		landscapes, while meeting water supply obligations.
FWC-17	Table 5.1-8 states: "Hunting (deer, hog, rabbit, term, by increased hydration in the very northern WCA 3A areas that have been dryer." The way that the sentence is written implies that hunting will have a major adverse effect on wildlife. We assume that what the DPIR/EIS means is that hunting will be negatively affected by increased hydrology. It also depends on what kind of hunting and what species of wildlife being referenced. Overall, hunting for deer, hog, and rabbit may be adversely impacted by increased depths in northern WCA 3A. This comment also applies to Table 5.2-6. We suggest this be clarified.	The sentence in Table 5.1-8 and 5.2-6 were rewritten to state "Improved hydrology in the northwestern portion of Water Conservation Area 3A that have been too dry could have a an adverse effect in the short term on hunting (deer, hog, and rabbit)."
FWC-18	In Section 5.1.15.3, Recreation: The first paragraph mentions the EWMA for the first time in the DPIR/EIS without mentioning where it is in relation to the CEPP footprint. We suggest mentioning it in the project area description and darifying that it comprises WCAs 2 and 3 (excluding the Reservation of the Miccosukee Tribe of Indians of Florida).	The following sentence was added to Section 5.1.15.3 "Comprising Water Conservation Areas 2A, 2B, 3A, and 3B, the EWMA totals 671,831 acres, or 82% of the Water Conservation Areas in south Florida and roughly 30% of the remaining Everglades landscape south of the Everglades Agricultural Area."
FWC-19	Table 5.2-1 states that there will be moderate to major improvements for WCA 3B, but from the staff was unable to determine the source of this water for the TSP. We also noted that there is no improvement in outflows from WCA 3B. Balancing inflows to WCA 3B with outflows from WCA 3B will be critical for ensuring that deleterious effects from high water levels are not introduced into WCA 3B, which, for the most part, has escaped the fate of a substantial loss of tree islands as has occurred in WCA 3A and in WCA 2.	The improvements to WCA 3B are the result of a significant increase to the average annual combined structural inflows to WCA 3B from WCA 3A, from 327 kAF in the FWO to 544 kAF in At AR2 (67 percent increase). A detailed description of the hydrologic effects of the CEPP TSP At 4R2 within WCA 3B is provided in Section C.2.2.7.7 of Appendix C of the CEPP draft PIR. A water budget map with surface water flow vectors for Alt 4R2, focusing primarily on the structure flows (kAF average annual) and locations (levee seepage flux along L.30 and L.29 is also indicated), is provided in Figure C.2.2 67. Alt 4R2, with the Blue Shanty flowway and L.29 Levee Gap, achieves significant north-to-south surface water flow directionality within WCA 3B only in the spatial footprint of the Blue Shanty flowway.

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		WCA 3B hydrologic benefits (continuing to distinguish between the Blue Shanty flowway and eastern WCA 3B) and to provide a more detailed summary of the water budget information shown on the WCA 3B water budget map. Within the Blue Shanty Flowway, approximately 97 percent of the increase in average annual structural inflows to this area of WCA 3B are discharged across the L-29 Levee degrade. By comparison, resultant from the outcomes of the CEPP plan formulation process, stages within eastern WCA 3B for Alt 4R2 were intentionally managed lower than within the Blue Shanty flowway, and increased structural inflows to this area of WCA 3B (S-345D) were targeted to achieve benefits of an extended hydroperiod without significantly increasing WCA-3B discharges through the existing S-355A and S-355 gravity spillway structures.
FWC-20	Figure 6-10: The difference in stages between the FWO and the TSP shows a 0.5- to 3.1.0 increase in water stage during 1995 in northwest WCA3A, which means water depths would have been three feet or greater near the 14 and 15. Although we recognize that the 1995 year is a model simulation as opposed to an actual condition at the time, the water levels in 1995 were much too high, and the TSP would have exacerbated the event.	Figure 6-10 illustrates the difference in stage within WCA 3 and ENP between the FWO and Alt 4R2 for a representative wet year (1995). As the comment notes, stages within northwestern WCA 34 for a representative wet year are greater than 0.5 feet and greater than 1.0 feet in some locations. Over the period of record (1965-2005) stages (3A-NW) within northeast WCA 3A are generally increased by 0.5 to 0.8 feet relative to the FWO.
FWC-21	Table 6-1 addresses the indicators used to measure progress toward meeting interim goals. Item 3.12 refers to the measure for the snail kite as: "Increase the areal extent of suitable foraging for snail kites." What is the basis for the supposition that CEPP provides better habitat conditions for apple snail populations in "most of WCA 34 and in WCA 38 and Shark River Slough in ENP?" Was a performance measure employed that specifically addressed this question? Did model performance indicate dry downs every 3-5 years in extensive marsh areas (central and western WCA 34, southern part of WCA 3A North, southern WCA 3B, and Shark River Slough) where wet prairie habitats are prevalent? Such dry downs are necessary to maintain the integrity of these communities and prevent a transition to slough environments (poor	Text in Table 6.1 is consistent with Annex A (Fish and Wildlife Coordination Act & Endangerel Species Act Compliance). Evaluation of potential effects to Evergiade snail kites within the CEPP project area included adaptations of ERTP PMs, including depth and recession rate requirements for Evergiade anail kite and apple snails, along with the Apple Snail Population Model throughout a 41 year period of record from 1965-2005. There were a greater number of years across the 41 year period of record in which Alt AR2 provided bethis within the 2012 FWS MSTS recommended depth ranges for apple snails (ERTP PM-C) during 1 May to 1 June. Results of the Apple Snail Population Model indicated implementation of Alt 4R2 provided better conditions for apple snail populations as well. Suitable foraging habitat for the Evergiade snail kite is typically a combination of low profile marsh and a mix of shallow open water. In order to analyze anticipated changes in vegetation that may affect nesting and foraging habitat for Evergiades snail kites, the ELVeS was employed to predict vegetation community change over time in response to changes in environmental conditions. In general, these results show an expansion of sloughs and wet prairies and contraction of sawgrass prairies

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	habitat for apple snails). Was the occurrence of extreme high water (>1.3-foot depth) during the	which would provide increased foraging and nesting habitat for Everglade snail kite and apple snail.
	apple snail's reproductive season (March-May) less	
	frequent in key wet prairie areas in the TSP	See Section 6.2.6.4 (Potential Effects of CEPP to Snail Kite) of the Supplemental
	compared to the FWU condition? Also, was potential snail kite nesting habitat taken into	l echnical analysis in Annex A.
	consideration? The woody species that provide the	
	best nesting substrates for successful nesting are	
	likely to continue to decline as long as the	
	frequency of extreme high water events remain similar to the FWO.	
FWC-22	Table 6-3 includes the comment: "Rehydration	The following statement has been added to Table 6-3. Although mammals occurring
	within previously dry areas ofWCA3A, 3B, and ENP	within the action area are adapted to the naturally fluctuating water levels in the
	would increase the spatial extent of suitable	Everglades, there is an increased potential that mammals currently utilizing upland
	habitat." This statement should include a caveat as	habitat may be negatively affected.
	to what type of wildlife this increase in habitat	
	would result. In particular, it would increase	
	wildlife habitat for wading birds and snail kites, but	
	will probably result in less habitat for terrestrial	
FWC-23	Annex G. Invasive and Nuisance Species	These species with the exception of wild taro are listed in section G.2.1.8 Other
	t Plan; There are other exotic	Species of Concern. Wild taro was added to this section.
	not identified in section 0.2.1.1 and which would	-
	be appropriate to include: the West Indian marsh	
	grass (Hymenachne amplexicauli), climbing acacia	
	(Senna pendula), wild taro (Colocasia esculenta),	
	and Napier grass (Pennisetum purpureum).	
FWC-24	that the non-nativ	A few areas were not identified in this section, these areas will be added/included.
	Management Area Retenherger Wildlife	
	d Southern Glades	
	and Environmental Area (note that the last is not	
	technically a wildlife management area). CEPP,	
	however, is primarily focused on Everglades and	
	Francis S. Taylor WMA (EWMA). Did this inventory include the FWMA?	
FWC-25	The statement in paragraph 0.2.1.2; "In these	Information will be added to this section.

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Appendix C.3

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	areas, Australian pine is present in remote mangrove swamps and sawgrass marshes where populations vary from dense stands to widely scattered patches" is technically incorrect. Australian pines do not grow in the marsh, but are typically found on dry locations and follow linear features (including levees and roads).	
PWC-26	Section 0.3.4 states: "Mechanical control refers to the use of machinery designed to cut, shear, shred, uproot, grind, transport and remove invasive species. Equipment used to complete mechanical control may include but is not limited to heavy equipment such as an excavator or front-end loader (with a root rake, grinding heads or other attachments), cutter boats, dredges and mechanical harvesters (Haller, 2009)." These techniques would not be feasible in the Central Everglades. Most initial efforts in the Central Everglades have focused on manual removal with chainsaw and removal by hand, followed by treatment of the remaining stumps.	This is a general section that describes the different control methods. Mechanical control is a method that will be utilized in select areas. Chemical control referred to as "manual removal" in comment FWC-26 will be used primarily. Information regarding mechanical and chemical control is discussed in G.b.Z. Control. Specific text in this section: Mechanical control will be implemented to remove non-native plant species when the construction of project features requires such removal. Heavy ganding neads, will be utilized to uproot, grind and/or clear and grub. It is expected this type of control method will be utilized during levee degrades, canal backfilling and during construction of new project features such as water control structures. Methods for treatment will include hack-r-squirt, basal bark, cut-stump, follor and aerial application. EPA approved herbicides will be utilized to treat aquatic and terrestrial invasive plants. Chemical control will be utilized to treat invasive plants in canals, along levees, in wetland/natural areas as well as WCA's, FEB's, etc.
FWC-27	Section 0.6.9 states: "It is recommended the addiacent lands within 0.5 mile of the canal and levee be surveyed and treated to eliminate close proximity seed sources. This would assist in preventing spread of priority species such as Brazilian pepper." This statement is not very specific on how the area within 0.5 miles will be surveyed and how infestations will be treated. Also, it doesn't mention what the priority species for treatment will be other than Brazilian pepper. What are the other priority species to be targeted? Does it just include plants?	Additional text was added to this section regarding surveillance/monitoring. In addition, the section will be reviewed for consistency and updates made as required.
FWC-28	In paragraph F.3.6 and in figure F-3, recreational	There will be one shelter at each site as identified in Appendix F – Table F-1 Site A

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	features describe three shelters at three locations, but it is not clear if the plan intends to state that there will be three shelters at each site identified or one at each site.	Recreation Features.
FWC-29	Table F-5 proposes an earthen crossing near the 5339 structure, but does not mention if the current bridge would remain. Please provide clarification on plans to retain or remove the historic bridge at 5339. Staff would like to see a discussion on how CEPP would impact recreational access.	The bridge (aka the Buggy Bridge) at 5339 is an existing structure that is anticipated to require structural maintenance activities or be decommissioned in advance of CEPPs 2029 implementation schedule and therefore is not included as a recreational component in the Central Everglades Planning Project. Appendix F. Recreation 5 includes an earthen crossing at this site to ensure the continued connection of existing buggy trails across the Miami Canal.
PWC-30	G.1.2 - Description of Project Performance Measures. In terms of this model's ability to measure ecosystem functions and benefits for CEP, it is inherently flawed based on the biased subset of Greater Everglades Performance Measures (or parts thereof) selected for inclusion. The Everglades Ridge and Slough Conceptual Ecological Model is referred to as part of the scientific basis for this set of performance measures (PMS). This conceptual model states that, "The depth, distribution and duration of surface flooding in this environment largely determined the vegetation patterns, as well as the distribution, abundance and seasonal movements and reproductive dynamics of all of the aquatic and many of the terrestrial animals in the Everglades." (Ogden 2005). The Everglades Ridge and Slough Conceptual Ecological Model identifies tree islands as one of its key attributes to be used as an indicator of restoration success. Tree Islands have practices and approximately half of the tree rislands in WCA 3A have been lost or degraded, with	Each of the project performance measures used in the CEPP planning model were derived from those performance measures approved for use in CERP by RECOVER at the start of plan formulation for CEPP. This approach was taken to expedite required USACE reviews of the CEPP planning model by the ECO-PCX given the accelerated schedule. The review of the Extreme High and Low Water Levels in the Greater Everglades Weltands performance measure has not been approved by RECOVER. An evaluation of high and low water levels (via stage duration curves) as well as an assessment on tree islands can be found throughout the report in Section 5 (Effects of the Alternatives) with supporting information in Appendix C (Environmental and Cultural Resources Information) and Appendix A (Engineering). Performance measure metrics used in the CEPP planning model used as as surrogate to capture high and low water events include (Average Dry and Wet Season Depth – Slough Vegetation Performance Measure.

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	repeated high water events being a major contributor to this loss. Yet, every one of the PMs selected (page G-2) evaluate how alternatives perform either by avoiding low water conditions (nine target components) or by improving sheetflow (three target components). The high-water detarget portion ofthe Extreme High and Low Water Levels in the Greater Everglades Wetlands PM used for evaluating model performance in ridge and slough indicator regions in WCA 3A was omitted from the benefits analysis. Due to the high ecosystem values that we attribute to Everglades plant communities such as tree islands and wet prairies that have been degraded by extreme high water levels, we find the omission of such an important performance measures to be a major hindrance in being able to provide an acceptable analysis of CEPP performance.	
FWC-31	Page G-41- Table G-9. The raw performance scores for Percent Period of Record (PPOR) of funudation on out include all of the indicator regions in WCA 3. making it difficult to judge performance in southern WCA 3. and WCA 3. However, those scores presented suggest that inundation lengths may be getting too long in northern and central WCA 3.4. All of these indicator regions (IRs) have inundations that exceed Natural System Model4.6.2 predictions by 2 to 5%, and range from 92 to 96% period of record. Only IR 118 had an inundation value that matched NSM 4.6.2 (91%), which likely reflects the diversion of greater quantities of flows into northern WCA 3.4 with concomitant decrease from WCA 2A through the 5- II structures into the area occupied by IR 118. Of particular concern is the increase in inundation lengths in central WCA 3.4 (III structures into the area occupied by IR 118. Of	Suitable foraging habitat for the Everglade snail kite is typically a combination of low profile marsh and a mix of shallow open water. The ELVES was employed to predict vegetation community change over time in response to changes in environmental conditions. See response to comment FWC-Z1 above. The largest change is in northwestern WCA 3A where increased water deliveries result in decreased wet scrubland community and subsequent increases in sawgrass. Effects of the Blue Shanty Flowway in WCA 3B and NESRS are evident in the replacement of sawgrass with floating emergent marsh and open marsh. Model results for Alt 4R2 reveal an expansion of open water habitat within southern WCA 3A where Everglade snail kites are currently known to nest and forage, potentially decreasing suitable habitat within this area. However, since the Everglade snail kite is a wide-ranging species, it is anticipated that these effects would be offste by increases in suitable nesting and foraging habitat throughout the CEPP project area. In general, ELVes results show an expansion of sloughs and wet prairies and contraction of sawgrass prairies which would provide increased foraging and nesting habitat for Everglade snail kite and apple snail.

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Appendix C.3

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	FWO to 96% POR in the TSP. Such long periods of	
	inundation suggest that there would likely be fewer	
	of the dry downs that are necessary to maintain	
	the wet prairie communities needed by snail kites	
	for suitable foraging habitat.	
FWC-32	Page G-55- Normalized Duration Curves for Gage in	The average elevation of the Twin Head tree islands is 1.97 feet with a maximum
	Blue Shanty Flow-way for Alternatives 1-4. The	elevation of 2.3 feet. It is expected that tree islands within the Blue Shanty Flowway
	footprint of the Blue Shanty flow-way would	will experience significantly wetter conditions with implementation of Alt 4R2. The
	include the Twin Head tree islands located	CEPP AM Plan (Annex D) for WCA 3B recognizes the sensitivity of tree islands, and as
	immediately south of the L-67C levee. These	such recommends an incremental restoration of hydroperiods and water depths for
	islands are swamp forest strands that possess	WCA 3B based on the ability of these islands to accumulate peat. The Twin Heads is
	elevations that are only about 1.0 feet or less	currently being monitored by the SFWMD and is expected to set the criteria for how
	higher than the adjacent marsh. The stage	fast tree islands grow and accumulate peat as a function of longer hydroperiods, high
	duration curve indicates that this area would have	flow velocities (which carry more nutrients and help trees cope with stress) and a
	water depths> 1.0 foot about 60% of the time.	pulsing operational design. The response of the Twin Heads is expected to be
	However, the TSP proposes water depths> 1.0 foot	compared to other tree islands in WCA 3B where the depths will be lower and the
	for approximately 88% of the time. These much	hydroperiods shorter. This information would then be used as a feed back to inform
	longer periods of inundation would very likely	the operations of structures along the L-67A levee and is expected to influence future
	result in the loss of swamp hardwood species	CERP designs. AM strategies and management options for the Greater Everglades
	(dahoon holly, swamp bay, wax myrtle, etc.) from	with respect to restoring tree island hydrology can be found in Section 1,4,2.3 of the
	these islands. Their species diversity would be	AM Plan (Annex D).
	greatly diminished, and limited to only the most	
	water tolerant tree species, such as Carolina	
	willow.	
FWC-33	Adaptive Management Option: Dig a shallow 5-355	The following text has been added (underlined here) to existing PIR text to
	B Collector Canal Extension near the southern end	recognize potential impacts that would need consideration before implementing
	ofWCA 3B, east of the proposed L-67D levee, to	the AM Option:
	increase flows southward out of this part of WCA	
	3B. We note that this option would require	AM Option: Dig shallow S-355B Collector Canal Extension near the southern end of
	significant impacts to wetlands and potential	WCA 3B, east of the proposed Blue Shanty levee, to increase flows southward out
	nesting and foraging sites for snail kites.	of this part of WCA 3B.
		The shallow canal would connect to remnant agricultural ditches to allow them to act
		as collector canals in the portion of WCA 3B potentially most sensitive to transition of
		restoring longer hydroperiods. A different AM Option is proposed below for the
		western portion of WCA 3B, which is referred to as the Blue Shanty flowway.
		Environmental Considerations: USACE would need to perform an analysis in
		accordance with Section 404 (b)(1) guidelines for CEPP to perform this option;

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AC 0140		and foraging sites for snail kites in the area.
\$6.5) \$1.00	Adaptive Management Option: Modify the agricultural canals in the WCA 3B flowway, west of the proposed L-67D levee, to maximize sheetflow and hydroperiod objectives. This option would impact potential nesting sites for wading birds and snail kites. The agricultural canals have been used extensively in the past by wading birds and snail kites as nesting substrate.	The following text has been added (underlined here) to existing PIR text to recognize potential impacts that would need consideration before implementing the AM Option: AM Option: Modify agricultural canals in the WCA 3B flowway, west of the proposed Blue Shanty levee, to maximize sheetflow and hydroperiod objectives. Remove spoil mounds and backfill the agricultural ditches (in order of priority) that run east-west and north-south in the portion of WCA 3B west of the Blue Shanty canal, a.k.a the Blue Shanty flowway. Environmental Considerations: USACE would need to perform an analysis in accordance with Section 404 (b)(1) guidelines for CEPP to perform this option; potential impacts to nesting and foraging sites for wading birds and snall kites would need to be considered.
STATE HISTORICE	STATE HISTORIC PRESERVATION OFFICE (SHPO)	
SHPO-1 SOUTH FLORIDA I EDCAL LEE COUNTY (LC) LC-1	SHPO-1 Our office reviewed the draft PIR/EIS for the CEPP Thank in accordance with the NEPA of 1969 and implementing regulations. We find the document to be consistent with federal regulation regarding the treatment of historic properties/cultural resources under NEPA. As noted in Appendix C.2. 1.7 of the document, Section 106 consultation regarding the potential effects of CEPP operations on historic properties is ongoing. We will continue to work with our federal, state, and tribal partners as the project progresses to ensure compliance with Section 106 and to minimize impacts to historic properties. SOUTH FLORIDA REGIONAL PLANNING COUNCIL - NO COMMENTS RECEIVED LOCAL LEE COUNTY (LC) First, Lee County applauds the efforts of the U.S. Thank the South Florida Water Management District	Thank you for your comment. Thank you for your comment.

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	("SFWMO") in its effort to expedite the planning phase of CEPP under the Corps' national pilot program. Given the numerous agencies and stakeholders involved and the sheer magnitude of this project, to arrive at a PIR in less than two years is remarkable. Secondly, Lee County wishes to express its continued support of the goals and objectives of CEPP to provide treated water to the Everglades National Park ("ENP") by capturing and redirecting south approximately 210,000 acre-feet of water from of Lake Oxeechobee. While these targets are long terms goals and only represent a fraction of the reductions necessary to alleviate the CRE, we can use the data and information produced from the PIR/EIS process in support of short term strategies to relieve the CRE from the devastating Lake Okeechobee releases that we felt this year.	
16.2	Caloosahatchee River and Estuary Due to extensive historical modifications to its watershed, the CRE receives the lion's share of adversity in both dry times and wet times from the Corps' Lake Okeechobee Regulation Schedule ("LORS 08"). In wet times, as we are experiencing recently, the Caloosahatchee River is the largest and most utilized discharge route. During these times, the CRE and the near shore of the Gulf of Mexico are "blown out" with brown, nutrient laden water. Then, in dry times, when minimal base flows are needed for freshwater grasses, the CRE is often cutoff 100% – zero water releases. In fact, there are instances when the CRE is essentially seewered at Otrona Lock so that all flows east return to Lake Okeechobee for water supply interests. Granted, estuaries are resilient to natural flood and drought conditions and often bounce back to	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where harmful amounts of freshwater from Lake Observed are discharged into the estuaries. The USAE acknowledges that additional actions, such as C-43 and IRL-5 are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
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	productivity. Yet, when subject to numerous "extreme" events for extensive durations, year to year, meaningful recovery is unlikely.	
[63	Caloosahatchee River and Estuary – Southwest Florida's Economic Engine Dozens of studies and plans have documented the harmful environmental damage to the CRE. However, the same level of scrutiny has not been applied to the corresponding economic damage to	While selecting a plan is predicated on the degree and significance of environmental restoration efforts (including beneficial reductions in releases to the CRE), the USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that have a direct correlation to the economic and social well being of the CRE.
	Southwest Florida, and its coastal communities. Now, local governments, business leaders, hotel associations, real estate groups and other stakeholders are partnering together in Southwest Florida to quantify the economic value and impact that is at stake. Here are a few facts that demonstrate the value of the natural resources in Southwest Florida (Collier/Lee Counties):	A statement has been added to Section 4.5.1 recognizing the need for additional action and the importance of the environment regarding the economy of South Florida.
	\$4.3 billion in economic activity from tourism; Creating 85,000 jobs \$400 million in bed tax, sales tax, and lo cal tax revenue \$147 billion in real estate value \$1.9 billion in property tax revenue	
	Simply put, impacts to the CRE directly translate into compounding impacts to our economy and quality of life. Selection of alternatives must address economics of CRE. Although any reduction of harmful releases can demonstrate a net benefit, the on-going impacts will continue until they can be reduced to a meaningful level.	
LC-4	Caloosahatchee River (C-43) West Basin Storage Reservoir Project The C-43 Project is critical to the overall goals of	Thank you for your comment. USACE appreciates the significance of the C-43 West Basin Storage Reservoir Project and Project implementation Report and Chief of Engineers Report is ready for authorization in the next WRDA.

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	CEPP and CERP. The C-43 Project is identified as one of the structural and operation assumptions in the future without comparisons. Flows less than 450 cubic feet per second (cfs) in the CRE are considered harmful since these flow levels allow salt water to intrude, raising salinity above the tolerance limits for communities of submerged aquatic plants in the upper estuary. The C-43 Reservoir will contribute to the restoration of ecosystem function in the CRE by maintaining a desirable minimum flow of freshwater to the estuary duning the dry asson. The importance of the C-43 Popier is idenmetrated by the Praiser	
	Assurances Analysis below.	
	Natural System ances – interintication of water for the Natural System and the Educahatchee Estuary is an average monthly flow of less than 450 cfs. In the Caloosahatchee Estuary, the number of months the low flow criteria is not met is similar in the with-project and without-project conditions. The estuary low flow criteria are not met for 23 months out the 41-year period of simulation (492 total months) in the with-project and 27 months in the with-project and 27 months in the with-project. Comparisons to the existing condition baselines show significant improvement in low flow performance with the with-project. Both the 2012EC and ECB show 116 months when average monthly flows are less than 450 cfs, compared to 23 months in the with-project Nether of the existing condition baselines benefit from the inclusion of the C-43 Project Which is	The CATO C-3 reserving project is includent in the fund without project condition of the existing condition baselines (ECB or 2012CC), as described in Section 2 of the CEPP PIR. The benefits of the C-43 project are illustrated by the comparison between the ECB/2012EC (116 months < 450 cfs) and the FWO (27 months < 450 cfs).
	included in the future without assumptions.	
TC-6	Lake Okeechobee Herbert Hoover Dike Repairs Current approved Herbert Hoover Dike ("HHD")	To date, the Jacksonville District has received between 20 to 25% of the National Dam Safety Construction budget for the Corps for rehabilitation of HHD and has been steadily working on HHD rehabilitation. The Corps has completed over 22 miles of

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	remediation measures consist of cutoff wall in	cut-off wall and currently have 16 of the 32 culverts under contract for replacement
	Reach 1: cutoff wall task orders 1 through 9 are	or removal. The Dam Safety Modification Report is scheduled for completion in 2015
	scheduled for completion in 2013, and 32 culvert	which will detail the remainder of the work necessary to complete rehabilitation the
		HHD,
	scheduled for completion in 2018. The Planned	
	remediation measures consist of cutoff wall and/or	
	a seepage management system in Reaches 2 and 3.	
	These actions are scheduled for completion in	
	2022. The comprehensive potential failure mode	
	analysis and risk assessment is being performed	
	and will be included in the ongoing Dam Safety	
	Modification Report (DSMR). This report is	
	scheduled for completion/approval in 2014.	
	Following the conclusion of this report, there needs	
	to be consideration of incremental increases in the	
	Lake's operating levels, Increases in operational	
	levels can give the Corps more storage in wet times	
	and can lead to additional water made available for	
	the CRE during dry times.	
LC-7	Operations - Adaptive Management	Thank you for your comment. The comment shows a good understanding of how
		adaptive management and monitoring will be implemented iteratively and provide
	As the CEPP proceeds and data from individual	feedback for continual improvement of restoration. To answer the commenter's
	project seguencing is continued to be gathered.	guestion: Per the CERP Programmatic Regulations (Pro Regs 1999) the knowledge
	this data is expected to feed back into the CEPP	gained from CEPP, CERP, and other monitoring will increase the knowledge of how to
	adantive management nian integration of	best implement Everglades restoration. This knowledge could be applied to
		additional lands if lands hecome available However the CEPP adaptive management
	the CEDP will help provide reasonable assurance	and monitoring does not facile on natential new lands nor does it provide
	associated with water quality issues and	authorization to incomorate new lands It is not annountate to include new lands as
	uncertainties. Adaptive management must be	an adaptive management measure. Instead, if new lands were to become available, a
	applied iteratively throughout the sequence	new planning process would need to be initiated to determine how to incorporate
	phasing of the CEPP to seek avenues for additional	the news lands into Everglades restoration.
	capacity to store, treat and move water south to	
	the Everglades. Is the plan adaptive enough to	
	incorporate future expansion or phases should	
	lands become available?	
FC-8	The Corps District Commander has the authority when requested by the non-Federal sponsor to	Any deviations from the approved Water Control Plans requires approval from the USACE South Atlantic Division. The gap in the old Tamiami Trail undertaken during
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	approve deviations from normal operating criteria.	the high water circumstances in 2013 did not require an operational deviation from
	These are typically approved in emergency	the Water Control Plan for WCA-3A. The actions taken by the SFWMD were
	situations. Given the severe impacts from the Lake	coordinated with the USACE through the Corps Regulatory Division to obtain a
	Okeechobee releases this summer, many believe	permit.
	emergency type actions were warranted to move	
	more water south through the WCA 3 into ENP.	The Corps will utilize all available data in making water management decisions within
	Recently, the SFWMD took several steps to move	its water control plan and in implementing any deviations it determines are
	more water south into ENP, including cutting a	appropriate. The Corps does not determine what constitutes "force majeure" for
	section of Tamiami Trail and clearing vegetation.	purposes of water quality compliance.
	Were these action granted under a similar	
	deviation? The Corps must use the data and	Lake Okeechobee is the source of the 210,000 ac-ft (average annual) redirected south
	information gathered through the PIR/EIS in order	under the CEPP TSP. Releases from Lake Okeechobee to the Everglades and the
	to develop operational flexibility and contingency	Northern Estuaries are conducted according to the operational criteria contained in
	plans for moving more water south during	the Lake Okeechobee Regulation Schedule. The Lake Okeechobee stage criteria
	extended wet times and during major storms.	assumed for delivery of water from Lake Okeechobee to the STAs and/or the
	These events must be viewed in a "force majeure"	integrated A-1/A-2 FEB is illustrated in Figure 7-1 of Annex C (draft Project Operating
	type situation and the State must be held harmless	Manual); when conveyance capacity, storage and treatment capacity is available and
	from water quality violations. Is the volume of	Lake Okeechobee stages are above the bottom of the 2008 LORS baseflow sub-band,
	flows diverted from the estuaries south based on	a portion of Lake Okeechobee outflows are directed southward. During these
	STA capabilities or hydraulic restriction? What will	operations, simultaneous regulatory releases are also made from Lake Okeechobee
	be the built hydraulic capacity south from Lake	to the Northern Estuaries in accordance with Part D of the Regulation Schedule.
	Okeechobee to ENP?	Additional information and documentation of the CEPP TSP modeling assumptions for
		Lake Okeechobee operations, which included revisions to the 2008 LORS Class limits
		for Lake Okeechobee inflow and climate forecasts (outside of LORS 2008 operational
		flexibility), are found in the Appendix A (Engineering), Section A.8.3.2.3.3 of the CEPP
		PIR. CEPP deliveries from Lake Okeechobee to the FEB and STA-3/4 were constrained
		by the maximum in-bank conveyance capacity of the Miami Canal (1,550 cfs) and
		North New River Canal (1,350 cfs), as documented in Appendix A (Section A.5.3.2.3)
		and detailed in Annex A-1 of Appendix A. Based on the results of the initial
		optimization for the CEPP hydrologic modeling, the FEBs may be operated as
		described in Section 7.1.2 of the Annex C, including the FEB accepting of Lake
		Okeechobee water when the FEB depth is below 2.0 feet (maximum 3.8 depth for
		EAA runoff inflows to the FEB).
6-07	Sequencing of CEPP and CERP	The executive summary incorrectly identifies the implementation timeline presented
		in the Draft PIR/EIS as an unconstrained schedule taking approximately 14 years. The
	The unconstrained timeline for the recommended plan is approximately 14 years. However	schedule presented was actually constrained at \$100 million per year of funding, which clearly has finned on how long the project will take to achieve full henselite.
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dependencies on other projects will affect the actual unconstrained construction is 2018 leads to a 2022 base year as a bost case the cost of the recommended plan (s)188, the constrained propriation of the recommended plan (s)188, the constrained propriation of funding, it is likely that the constrained propriation of funding, it is likely that the constrained plan (s)188, the constrained consideration of the constrained plan (s)188, the constrained plan (s)188, the constrained plan (s)188, the constrained plan (s)188, the constrained plan (s)188, the constrained (s)188, the con	COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
the cost of the recommended plan (\$1.88), the need for Congressional authorization and appropriation of funding, it is likely that full implementation of funding, it is likely that full extend over two or more decades providing incremental hydrologic and environmental benefits. Many factors influence implementation of the CERP Program of projects, in addition to the kind of project dependency considerations, other factors that influence implementation include funding availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of projects that are to be constructed by other agencies. The PIR states that Corps and the SFWMD will "undertake integration of the CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP projects awaiting authorization and perational assumptions in the modeling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		dependencies on other projects will affect	The actual unconstrained construction is expected to take 6 years. Accounting for the
the cost of the recommended plan (\$1.8B), the need for Congressional authorization and appropriation of funding, it is likely that full implementation of funding, it is likely that full implementation of funding, it is likely that full implementation of the recommended plan will extend over two or more decades providing incremental hydrologic and environmental benefits. Many factors influence implementation of the CERP Program of project dependency considerations, other factors that influence implementation include funding availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of projects that are to be constructed by other agencies. The PIR states that Corps and the SFWMD will "undertake integration of the CERP recommended plan and the other CERP programs' integrated delivery schedule through a robust public process once these projects have been authorized." When will this occur? Additionally, given the structural and operational assumptions in the modeling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl (33, C-111) and interim short Ic-Lterm storage strategies may be the torality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		recommended plan implementation. Considering	2-3 year PED effort and authorization in 2014 leads to a 2022 base year as a best case
need for Congressional authorization and appropriation of funding, it is likely that full implementation of funding, it is likely that full implementation of funding, it is likely that full extend over two or more decades providing incremental hydrologic and environmental benefits. Many factors influence implementation of the CRRP Program of projects. In addition to the kind of project dependency considerations, other factors that influence implementation include funding availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of projects that are to be constructed by other agencies. The PIR states that Corps and the SFWMD will "undertake integration of the CEPP recommended plan and the other CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP projects authorized." When will this occur? Additionally, given the structural and operational assumptions in the modeling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		the cost of the recommended plan (\$1.8B), the	scenario. The executive summary will be updated to include the "best case"
implementation of funding, it is likely that full implementation of the recommended plan will extend over two or more decades providing incremental hydrologic and environmental benefits. Many factors influence implementation of the CRP Program of projects, in addition to the kind of project dependency considerations, other factors that influence implementation include funding availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of project that are to be constructed by other agencies. The PIR states that Corps and the SFWMD will "undertake integration of the CEP recommended plan and the other CRP projects awaiting authorization into the CRP projects awaiting authorization will this occur? Additionally, given the structural and operational assumptions in the modeling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		need for Congressional authorization and	unconstrained scenario and also include a more realistic "funding constrained"
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extend over two or more decades providing incremental hydrologic and environmental benefits. Many factors influence implementation of the CERP Program of projects, in addition to the kind of project dependency considerations, other factors that influence implementation include funding availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of projects that are to be constructed by other agencies. The PIR states that Corps and the SFWMD will "undertake integration of the CERP recommended plan and the other CERP projects awaiting authorization into the CERP programs' integrated delivery schedule through a robust public process once these projects have been authorized." When will this occur? Additionally, given the structural and operational assumptions in the modeling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short Ic-Lterm storage strategies may be the torality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		implementation of the recommended plan will	due to uncertainties and limitations.
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Many factors influence implementation of the CERP Program of projects, in addition to the kind of project dependency considerations, other factors that influence implementation include funding availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of projects that are to be constructed by other agencies. The PIR states that Corps and the SFWMD will "undertake integration of the CEPP recommended plan and the other CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP projects awaiting authorized." When will this occur? Additionally, given the structural and operational assumptions in the modelling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		benefits,	for submittal to the Assistant Secretary of the Army for Civil Works and Office of
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project dependency considerations, other factors that influenced memoration include funding availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of projects that are to be constructed by other agencies. The plit states that Corps and the SFWMD will "undertake integration of the CEP recommended plan and the other CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP projects awaiting authorization will this occur? Additionally, given the structural and operational assumptions in the modeling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-1term storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		CERP Program of projects. In addition to the kind of	Final PIR/EIS. The implementing agencies are committed to engaging in a public
that influence implementation include funding availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of projects that are to be constructed by other agencies. The PIR states that Corps and the SPWND will "undertake integration of the CEPP recommended plan and the other CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP projects awaiting authorization will this occur? Additionally, given the structural and operational assumptions in the modelling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational ilke the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		project dependency considerations, other factors	process after Congressional authorization and appropriations of CEPP to integrate
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integration of projects that are to be constructed by other agencies. The plk states that Corps and the SFWMD will "undertake integration of the CEPP recommended plan and the other CERP projects awaiting authorization into the CERP projects awaiting authorization into the CERP programs' integrated delivery schedule through a robust public process once these projects have been authorized." When will this occur? Additionally, given the structural and operational assumptions in the modeling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-1term storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		Federal and Non-federal sponsor, as well as the	
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assumed complete and operational like the C-43 Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111,) and interim short LC-1term storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		analysis, is it possible for CEPP to precede projects	
Project? Conclusion We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-1term storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		assumed complete and operational like the C-43	
Conclusion We realize this project along with the remaining phases of CERP (incl Cd3, C-111) and interim short LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		Project?	
We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.	LC-10	Conclusion	Thank you for your comment.
phases of CERP (incl C43, C-111) and interim short LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		We realize this project along with the remaining	
LC-Iterm storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		phases of CERP (incl C43, C-111) and interim short	
efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.		LC-1term storage strategies may be the totality of	
are hopeful you will be able to address our concerns stated above.		efforts for the benefit of the CRE for decades. We	
concerns stated above.		are hopeful you will be able to address our	
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
MARTIN COUNTY (MC)	Y (MC)	
MC-1	The Martin County Board of County Commissioners	Thank you for your comment.
	Indian River Lagoon-South Project (IRL-S),	
	authorized by Congress in 2007. The first	
	component of the project, the C-44 Reservoir and	
	STA, is currently under construction. We are proud	
	partners with the U.S. Army Corps of Engineers and	
	the South Florida Water Management District in	
	the completion of this vital restoration project. Our	
	citizens voluntarily taxed themselves, generating	
	\$75 million dollars, towards the implementation of	
	this project, acquiring 45,000 acres of land. This	
	unique and substantial partnership reflects the	
	importance of Everglades restoration to the people	
	of Martin County.	
MC-2	Martin County continues to voice our support of	The USACE and the SFWMD will continue to work in partnership to construct the
	the Central Everglades Planning Project. We	authorized IRL-S project in accordance with funding appropriated for the project and
	recognize and appreciate the 23% reduction in the	maintenance of the programs 50/50 cost share balance.
	highest volumes of freshwater flows from Lake	
	Okeechobee into the St. Lucie Estuary. We also	
	stress, as you noted in the Project Implementation	
	Report (PIR), and in the numerous PIR team	
	meetings that occurred throughout this process,	
	that "additional actions are needed to further	
	reduce harmful discharges of freshwater from Lake	
	Okeechobee to the St. Lucie and Caloosahatchee	
	estuaries," We support CEPP as a one of many	
	efforts to reduce freshwater inflows to the St.	
	Lucie. Moving forward, a critical component of the	
	restoration discussion is the need to complete the	
	remaining components of IRL-S beyond the C-44	
	Reservoir and STA, and to establish a minimum of 1	
	million acre-feet of new storage capacity north and	
	south of Lake Okeechobee to meaningfully reduce	
	the freshwater discharges to the St. Lucie from the	
	Lake.	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
MC-3	Specific to the PIR, Martin County would like to see improved descriptions, both in the narrative and asplacially, of the project benefits to the estuary associated with various project enefits. Specifically, on your graph that shows the number of times the mean monthly flows are greater than 2000 cfs to the SLE, there is a 20 "high discharge" event improvement for <i>basin flows</i> with IRL-5 and a 4 event improvement for <i>Lake flows</i> with IRL-5 South in place.	Section 2 (Existing and Future Without Project Conditions) provides a description of the FND project condition. Table 2-2 provides a summary of the status of non-CRP projects, CERP projects, and operational plans assumed to be implemented in the FWD project condition. Section 6.2.5 (Northern Estuaries [Atternatives 4R and 4R2]) summarizes benefits to the Northern Estuaries resulting from implementation of Alt 4R2. Figure 6-29 presents the number of times salinity criteria are not met within the St. Lucie Estuary. Benefits attributable to the Indian River Lagoon-South project can be understood by evaluating differences between the ECB and FWO project condition which assumes implementation of C-44 Reservoir and STA. The differences between the FWO project condition and the future with project condition (Alt 4R2) are the effects of the project. Text has been added to this section, as well as Section 6.2 (Environmental Benefits) to further highlight benefits attributable to the Indian River Lagoon-South project. Additional comparisons of modeling results for the Northern Estuaries to the IORBL1 which was used for Savings Clause requirements and Project-Specific Assurances can be found in Annex B (Analyses Required by WRDA 2000).
MC-4	With CEPP in place, there is a 10 "high discharge" event improvement for basin flows (compared to 20 for IRL-S), and a 5 event improvement for Lake flows (compared to 4 for IRL-S). This information is straight from the generalized graphs in the PIR, however those graphs do not provide relevant detail regarding to which projects those benefits are attributed.	See response to comment MC-3 above.
MC-5	In order to make those benefits clear and transparent so we can better explain and advocate to our Congressional members the merits of both the IRL-S and CEPP, we ask that greater explanation be provided in the PIR. Specifically, Martin County respectfully requests that the ACOE edit the graphs to include the greater detail on benefits, as well as add language to the PIR, particularly in the Executive Summary, that details all of the projects that were assumed to be completed in order for the CEP benefits to be fully realized (e.g. Modified Water Deliveries, Tamiani Trail Next Steps, C-11.	See response to MC-3 above. Furthermore, Table 6-10 in Section 6.7 (Plan Implementation) documents a number of project dependencies including but not limited to the C-44 Reservoir (IRL-5 Project) and connection to the C-23 Canal. dependencies.

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Impoundment, Restoration Strategies, C-43	
	Reservoir, and the IRL-S projects), and how system-	
	wide benefits are attributed to each of those	
	projects in the context of the CEPP benefits. This	
	type of detail will assist all of your stakeholders in	
	understanding what CEPP entails, and the benefits	
	that each of the related projects brings to the	
	greater Everglades ecosystem, including the	
	estuaries.	
MC-6	We appreciate and understand the benefits that	Thank you for your comment.
	CEPP brings in reducing harmful freshwater	
	discharges from the Lake to the estuaries. We offer	
	our assistance to your team now in addressing our	
	comments to provide more information that can be	
	readily understood by the public, elected officials,	
	or anyone who is not immersed day-to-day in the	
	federal project process, regarding what CEPP	
	brings in the way of improved conditions compared	
	with other relevant restoration efforts.	
MIAMI-DADE COUNTY (MDC)	SUNTY (MDC)	
MDC-1	_	The design of features such as the seepage barrier and its interface with existing and
	(PIR) also states that insufficient engineering	proposed infrastructure, including operations, will be investigated in detail during the
	information is available to adequately evaluate or	PED phase. In PED, further analyses and design efforts based upon the accrual of site
	design key structural elements and operation of	specific subsurface and topographic data may result in design refinements. Appendix
	Alternative 4R2, particularly those associated with	A - Engineering has undergone technical reviews by the USACE reviews and is in
	seepage management. The analysis and	compliance with USACE guidance for planning studies.
	conclusions are also based upon compounded	
	assumptions about which CERP and non-CERP	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been
	projects may be in place in the future, but do not	edited since the release of the Draft PIR/EIS for public review on August 29th, 2013.
	address sequenced or partial implementation of	Section 6.7.1 discusses the major implementation phases that are expected to occur
	CEPP and other projects in South Florida.	after congressional authorization and appropriation of funding for project
		construction. Project features are grouped into three separate PPAs based upon the
		spatial distribution of the project features and the locations within the CEPP study
		area where separable hydrologic and environmental benefits would accrue.
MDC-2		Consistent with the WRDA 2000 and the Programmatic Regulations, the savings
		clause analysis identifies the effects of the plan, not non-CERP actions (for example,
	Savings Clause analysis. Therefore, although	ERTP). The baseline used for the savings clause analysis appropriately includes

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Miami-Dade generally supports the objectives and	comparison between the Future Without Project condition (IORBL1) and the CEPP
	general approach of CEPP, and the expected	TSP to determine the effects of the CEPP plan.
	benefits it promises for water quality and deliveries	
	to the central Everglades, we do not concur at this	
	time with conclusions in the Draft PIR that Savings	
	Clause requirements have been met.	теления в перей на пределения в пред
MDC-3	Modeling of Water for Future Water Supply	During CEPP formulation, to aid with PDT evaluation of performance of the CEPP
	Demand	alternatives under dry conditions, average monthly stage maps for the Lower East
		Coast Service Area were produced for April 1989 and April 2001 during extreme
	Annex B, Annex D and other sections of the report	drought years; for reference comparison, average monthly stage maps were also
	refer to late modeling efforts to optimize and	produced for April 1978 (an average rainfall year), April 1995 (an extreme wet year),
	identify potential additional water to help meet	and mean April stage for the complete period-of-record. These maps cover the Lower
	increased future water supply demand, in average	East Service Area including public water supply wellfields, regional canals supplying
	annual withdrawals, in the LECSA. The report cites	surface water, and areas affected by saltwater intrusion.
	this modeling outcome as a demonstration that	
	Savings Clause and Assurance requirements are	Additional CEPP model results evaluated for effects to agricultural or urban water
	met, Miami-Dade County advised during the	supply are the frequency of water restrictions graphics for LECSA 2 and LECSA 3,
	planning process that it did not expect CEPP to	seepage volumes across the East Coast Protective Levee (ECPL), regional water supply
	provide additional water for future demand, since	deliveries, and canal stages near public water supply wellfields. Collectively, these
	it was understood that CEPP will only partially fulfill	metrics are indicators of whether the water supply demand in the LECSAs can
	total restoration goals envisioned by CERP,	continue to be met by the regional system, including Lake Okeechobee, the WCAs,
	Although it is encouraging that benefits from CEPP	and the surficial aquifer system. All metrics were evaluated across the entire period
	and system operations may indeed provide more	of simulation (1965-2005), including consideration of specific dry years and/or dry
	water for water supply without reducing benefits	hydrologic conditions.
	to natural systems, this theoretical water-made-	
	available does not help to address specific Savings	Each of these graphics was reviewed during development of the Savings Clause
	Clause concerns that Miami-Dade has repeatedly	evaluation in Annex B, and all of these graphics are posted on the Everglades Plan
	described. Miami-Dade's interest in water supply	public web site for the CERP, as indicated in Section 5.2 and Appendix A:
	Savings Clause and Assurances has focused upon	http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx
	maintaining groundwater and surface flows in each	
	welffield area, particularly during dry season,	As described in Section B.3.1.3 of Annex B in the draft and final PIR, CEPP
	drought periods, and in view of rising sea levels so	implementation will provide increased stages and extended hydroperiods within WCA
	that water quantity and quality remain equivalent	3B and NESRS, resulting in a net increase in average annual groundwater seepage
	to the condition at the time of adoption of WRDA	flows from these natural areas to the adjacent LECSA 3. The increased seepage flows
	2000. The modest amount of average annual	may slightly alter the water quality composition within the LECSA 3 surficial aquifer,
	withdrawal identified by modeling for Miami-Dade	through the relative increased contribution of groundwater seepage flows to the
	is associated with only one wellfield area, and the	surficial aquifer recharge compared to the contribution from regional C&SF canal

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	analysis did not address water quality or availability during dry conditions, when Savings Clause considerations are of greatest concern.	flows. These changes should result in either no significant change or a potential minor improvement to the water quality of withdrawals from the proximate public water supply wellfields within LECSA 3. Additional maps have been added to Annex B to clarify all of the information utilized in the Savings Clause analysis that formed the basis of the conclusion that there are no impacts to existing legal sources for public water supply. The analysis for Project Assurances in Annex B identified the water made available by the project for the natural system as well other water related needs, which includes public water supply. In Miami-Dade County, the additional municipal public water supply pumping of 5 MGD identified with Alternative 4R2 was assumed for the west wellfield, 13-0017-W.
MDC-4	Seepage Barrier Uncertainty Flood risk in urban and agriculture lands is primarily a wet season/year concern, whereas wellfield recharge, downstream water quality, sattwater intrusion, and hypersalinity in Biscayne Bay are primarily dry season or drought concerns. Water management strategies must be integrated and flexible enough at regional and local scales to address the full range of extreme wet and dry conditions. Miami-Dade has generally advocated use of operable infrastructure such a pumps, detention areas, and step down-systems for water delivery and seepage management. An operable system, with performance that can be adjusted in extreme conditions, is more compatible with adaptive management goals of CRPP. The seepage barrier wall that is part of CEPP AltAR2 will not be operable. There are remaining uncertainties about its overall effectiveness in maintaining flood protection and canal stages to the east without holding too much groundwater back during dry	The following text was added to CEPP PIR Section 6 TSP description for the 'yellowing' area to further highlight remaining uncertainties and need for more information before implementing a seepage barrier in CEPP: There are remaining uncertainties about the effectiveness of the CEPP TSP seepage cutoff wall in maintaining desired stages in marshes of ENP while maintaining water supply, flood protection and water availability to Biscayne Bay. Therefore, additional analysis of protection and water availability to Biscayne Bay. Therefore, additional analysis of 6.10.1.2, the Engineering Appendix (Appendix A), the analyses required by WRDA 2000 (Annex B), and the CEPP Adaptive Management Plan (Annex D Part 1) for more detail about the remaining uncertainties and suggested analysis to be completed to determine the need for and extent of a CEPP seepage cutoff barrier wall." To address the commenter's concerns the following text was added to the introduction to the LEC section of the adaptive management plan: "There are remaining uncertainties about the effectiveness of the CEPP TSP seepage cutoff wall in maintaining desired stages in marshes of ENP while maintaining water supply, flood protection and water availability to Biscayne Bay. Therefore, additional analysis of the CEPP seepage cutoff wall will be conducted during the PED phase. See Section 6.10.1.2, the Engineering Appendix (Appendix A), the analyses required by WRDA 2000 (Annex B), and the CEPP Adaptive Management Plan (Annex D Part 1) for more detail about the remaining uncertainties and suggested analysis to be completed to determine the effectiveness of the CEPP seepage cutoff barrier wall."

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	conditions. "Appendix A - Engineering" states that existing hydrologic data is not adequate for assessing performance or design of the proposed barrier or its configuration, although this concern in the configuration, although this concern in the configuration, although this concern in the configuration, although this concern is the thin time, though a pilot barrier wall has been installed by rockmining interests in Miami-Dade, sufficient data has not been available To evaluate its specific effectiveness in relation to all CEPP objectives and constraints. "Section 6.102.1—L31 Seepage Barrier Demonstration Project" acknowledges uncertainty about this feature, largely from the perspective of preventing loss of water from the marsh, and does not address potential concerns for water supply or flows to Biscayne Bay or Savings Clause implications at all. The seepage barrier wall is one of the CEPP features with the greatest uncertainty regarding its performance, and also a feature that is associated with relatively great risk related to flood protection, water supply and ecological benefits within and outside of ENP. The dependence of CEPP seepage control on this feature makes Savings Gause conclusions inherently uncertainty should be acknowledged clearly and consistently in all relevant sections of the draft PIR, and a more coordinated approach to refined modeling, design, assessment and adaptive response strategies for seepage control features must be emphasized in the AM-Malan.	
MDC-5	Performance During Extreme Wet and Dry Conditions As noted above, it is important to be able to evaluate how effectively CEPP compares to	The Savings Clause evaluation, which is included in Annex B of the PIR, does include assessment of the overall period-of-record (1965-2005) performance, extreme wet events, and extreme dry events. Design storm and/or Standard Project Flood Analysis were not specifically conducted as part of the hydrologic modeling developed to support the CEPP draft PIR, although comparable extreme events are included within

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	performance of the existing system during periods	the historical period of record. During Hurricane Irene (13-17 October 1999), several
	where risk of damaging high or low water levels	monitoring sites in Broward, Miami-Dade, and Palm Beach counties, including Water
	and flows could occur. Performance metrics used	Conservation Areas (WCAs) 1, 2, and 3, received the 24-hour, 48-hour, and 72-hour
	in Savings Clause evaluation and assessment	maximum rainfall amounts that would be expected to occur once in 100 years, with
	therefore should be based upon seasonal and	cumulative rainfall in excess of 9 inches (SFWMD Technical Publication EMA #386,
	extreme wet or drought conditions, whether	May 2000). As documented within the CEPP RSM hydrographs (a link to this data is
	related to flood, water supply for human uses, or	provided in the CEPP draft PIR main report, the Appendix A main Engineering Report,
	water supply for fish and wildlife. Even though the	and Annex A-2 of Appendix A), peak stages within the simulation period of record for
	probability of drought or extreme wet conditions	WCAs 1, 2, and 3 typically occur during 1994-1995 and peak stages for Lake
	may be relatively low, the ecological or human and	Okeechobee occur during 1969-1970 (i.e. for these specific areas, these events may
	economic costs of flood, saltwater intrusion, or	have lower frequency of occurrence than the 1999 event).
	hypersalinity of such an occurrence are significant,	
	or even devastating, and should not be discounted.	During CEPP formulation, to aid with PDT evaluation of performance of the CEPP
	Comparisons of annual average flow or long-term	alternatives under dry conditions, average monthly stage maps for the LEC area were
	temporal averages of flow or stage cannot	produced for April 1989 and April 2001 during extreme drought years; for reference
	adequately address water supply and flood	comparison, average monthly stage maps were also produced for April 1978 (an
	considerations during the evaluation and design	average rainfall year), April 1995 (an extreme wet year), and mean April stage for the
	process, or during assessment when project	complete period-of-record. Similarly, to aid with PDT evaluation of performance of
	components are being implemented. Additional	the CEPP alternatives under wet conditions, average monthly stage maps for the LEC
	graphic analysis of wet and dry years and regional	area were produced for October 1995 during this extreme wet year; for reference
	analysis of flood-prone and wellfield areas should	comparison, average monthly stage maps were also produced for October 1978 (an
	be included consistently in Annex B, D and other	average rainfall year), October 1989 (an extreme dry year), and mean October stage
	relevant sections of the report.	for the complete period-of-record. Each of these graphics was reviewed during
		development of the Savings Clause evaluation in Annex B, and all of these graphics
		are posted on the Everglades Plan public web site for the CERP, as indicated in
		Section 5.2 and Appendix A:
		http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx
		Consistent with the WRDA 2000 and the Programmatic Regulations, the savings
		clause analysis identifies the effects of the plan, not non-CERP actions (including, for
		example, ERTP). The analysis therefore compares the Initial Operating Regime with
		the project (Alt 4R2) to the Initial Operating Regime baseline without the project
		(IORBL1). Although Annex B additionally includes comparison of Alternative 4R2 with
		the two existing baseline conditions (2012EC and ECB), to inform evaluators of the
		cumulative potential effects of both CEPP and other intervening CERP and non-CERP
		projects relative to conditions experienced previously, this information is not used to
		determine compliance with the requirements of the Savings Clause. Difference maps,

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		which are also posted with the model performance measure graphics, were used to facilitate comparison between the CEPP TSP and the IORBLI baseline. Since the analysis summary provided with the draft PIN Annex B only included difference maps for April 1989 and October 1995, additional stage difference maps and evaluation discussion for April 2001, April 1978, period-of record mean April, and period-of-record mean October will be included in Annex B of the Final PIR. The difference maps include all of the LEC, including historically flood-prone areas and wellfield areas, as requested in the comment.
MDC-6	Incremental Analysis of Savings Clause and Assurances	Thank you for your comment. Savings clause evaluations and the Draft Project Operating Manual have been provided for the entire project. To address any future uncertainties related to incremental implementation, it is recognized that prior to
	evaluations or CEPP benefits and constraints are based upon assumptions of full project completion and systemwide operating plan that incorporated an array of CERP and non-CERP projects. It is noted in "section 6.1.3 Project Operations" of the Main Report that the operating plan will evolve as components are constructed or begin operation. "Annex C – Project Operating Manual Section 21" states that "At this time, interim operations during construction cannot be determined." "Section 6.8.7 Incremental Analysis During Plan Implementation" states in a cursory fashion that Savings Clause and Project Assurances will also have to be repeated for each phase of CEPP. This is a highly critical issue, and should be moved to a higher level of emphasis, and included in the uncertainty section of the Main Report, as well as thoroughly acknowledged and addressed in Annex B and Annex C. Because it is not possible to determine how the CEPP project will be funded and over what timeline, or if it actually will be	implementation of and praces, authorional actained analyses pertaining to that phase of implementation will be considered in development of the Project Operating Manual. These analyses will include demonstration that Savings Clause and Project Assurances requirements for the project phase will be met prior to PPA execution. This is discussed in Section 6.7.1.7.
	completed as assumed, this adds significant uncertainty to the Savings Clause analysis. Even if it is accepted that a systemwide evaluation	

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	supports a conclusion that Savings Clause requirements are met, regardless of what baseline is used for a comparison, this is a hypothetical modeling exercise that does not reflect the actual construction and operating sequence, extended timeline, possibility that some elements may not be completed as assumed, and effects on regional ecological, flood, and water supply benefits and risks. Regional water control plans and Savings Clause analyses must be revisited and integrated at each stage of project or component design and implementation. A plan for such re-evaluations of CEPP components and operations plans should be described in the Adaptive Management Plan as well.	
	Miami-Dade is pleased that proposed sequencing strategies generally recognizes the need to have seepage management features in place and operational prior to or concurrently with components that are expected to improve conveyance to Northeast Shark River Slough. However, we recommend that operation of the \$5.356 pump, at its current capacity be actively pursued immediately. This ModWaters feature, together with the existing seepage barrier pilot project constructed by the rockmining industry, represents an opportunity to address seepage that currently exists, as well as incremental increases in seepage that could result from weather events or water management to address ponding in WCA3a.	Project features are grouped into three separate PPAs based upon the spatial distribution of the project features and the locations within the CEPP study area where separable hydrologic and environmental benefits would accrue. These groupings include a PPA offolger features in northern WCA 3A, (PPA North), a PPA of project features in southern WCA 3A, 3B, and ENP (PPA South), and a final PPA which provides the new water and required seepage management features that benefits the entirety of the study area (PPA New Water). The Final PIR/EIS presents two poperatival implementationning scenarios that are possible with the three separate PPAs currently editing 1, PPA North → PPA North → PPA North → PPA North → PPA North → PPA North → PPA North → PPA North → PPA South → PPA North → PPA North → PPA North → PPA North → PPA North → PPA South → PPA North → PPA North → PPA South → PPA North → PPA North → PPA North → PPA North → PPA North → PPA North → PPA South → PPA North → PPA North → PPA South → PPA North → PPA North → PPA South → PPA North
	Some early ecological benefits for Northeast Shark River Slough, southern WCA3a, listed species, southern estuaries could be achieved by improved delivery and distribution of water already in the system, or more flexibility in water management	Final PIR/EIS. The implementing agencies are committed to engaging in a public process after Congressional authorization and appropriations of CEPP to integrate CEPP into the CERP Master Implementation Sequencing Plan that defines the order in which CERP projects would be planned, designed, and constructed.

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	options as Tamiami Trail improvements are completed. Operation of these seepage	CEPP infrastructure, and how it would interface with operations and existing infrastructure, will be considered in the future as adaptive management, Pre-
	management features, that are already on the	Construction Engineering and Design (PED), and as site specific information becomes
	on, and their integration ir	
	not be deferred until new water is made available.	
	assessment of performance and refinement of	
	localized models, engineering design and operating	
	plans.	
MDC-8	Annex D Adaptive Management Plan Approach to	1. Thank you for your comment. In general, please note that options presented in the
	Seebage barrier issues	LERP adaptive management plan are suggestions, which may be pursued to adjust the design, implementation, and effects of CEPP. They are not automatic actions.
	Miami-Dade is pleased that the Adaptive	They are subject to agency coordination, permitting, and support, as described in the
	Management (AM) plan includes a specific	AM Plan. Also, they may be expanded if new possibilities become available, so that
	uncertainty related to effectiveness of the	Everglades decision makers are not limited to the options currently described in the
	proposed seepage barrier with respect to Savings	AM Plan. The options are suggestions that capture current understanding of
	Clause issues of flood protection and water supply.	potential future issues and solutions. An explanation of this has been added to the
	~	Annex D Introduction in order to help address the commenter's concern.
	options" or metrics/triggers and monitoring	Explanations already exist throughout the AM Plan, and have been left intact.
	approaches are of great concern. For example, the	
	in Annex D Section 1-83, it is suggested that is	2. In several cases throughout CEPP's TSP the design of features such as the seepage
	seepage occurs around the "north end" of the	barrier and its interface with existing and proposed infrastructure, including
	proposed seepage barrier then it may be extended	operations, will be investigated in detail during the PED phase. AM options such as
	to the north into the "triangle". A wall extending to	northern extension of the seepage barrier would require a similar level of
	the north (which was part of Alt 2 and Alt 3) was	investigation, and would be subject to all applicable requirements for coordination,
	the professed alternative Eurther it is not clear	permitting, design, and implementation. It is true that extending the seepage barrier
	how this management option would integrate with	necessary coordination and permitting would be completed before implementation
	management of the L-29, the existing or proposed	of the option. To help address the reviewer's concerns a reminder has been added to
	5-356, or any other infrastructure and operations in	the AM Plan section where the process is described for verifying whether a CEPP
	that area, of how deep an extended wall would be.	seepage barrier is needed. The reminder added is, "All applicable analysis,
	Other content (see Annex D Section 1-85), such as	coordination, and permitting requirements will be met and/or updated where
	inclusion of "windows" in the wall, increased	necessary before initiating construction of a CEPP seepage barrier." A similar
	stages in the WCA3b in the dry season to force	reminder exists in several places in the PIR.
	water under the wall, or pumping around the wall	
	In the dry season are options that are not well	3. Several interagency meetings took place to develop the CEPP AM Plan, including its

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	substantiated or documented. There is a proposal	LEC portion, but not all agencies could attend all meetings. Concur that more
	of "two feet of drawdown" in a wellfield cone of	coordination would be useful and will occur during the PED phase of this TSP feature.
	influence as a trigger for a management action. It	Miami-Dade can and should participate in these discussions if possible. The
	is not clear to us what this means, what baseline	introduction and each regional section of the AM Plan states that the contents of the
	would be employed, or where and when it would	AM Plan will be revisited and refined after CEPP authorization and as CEPP progresses
	be modeled, measured or implemented. We do	through its design and implementation. This provision was included in the AM Plan
	not recall these options or triggers ever being	because the time that may pass before CEPP is implemented is uncertain, and various
	discussed in interagency meetings. We recommend	sources of additional data may become available during that time. The AM Plan will
	that these more detailed elements of the AM plan	be reviewed to include new information where appropriate, so that the AM Plan can
	be revisited, and that any concept of such	remain timely and targeted on CEPP's needs.
	management options or triggers must be	
	integrated with other features and operation	4. In addition it is recognized by the CEPP team that the thresholds and triggers
	metrics for the WCAs, ENP, L-29, L-30 and L-31.	suggested in the AM Plan are estimates and should be improved. The CEPP team
	Miami-Dade also has questions and concerns about	would like Miami Dade input in the improvements that will take place, via RECOVER,
	the descriptions of proposed monitoring for AM (or	to identify triggers that signify needs for project adjustments. The following text
	water quality and hydrology) and costs. Miami-	exists in the paragraph describing the LEC triggers and thresholds, and now has been
	Dade does have an existing network of surface and	changed to bold-print to help address the reviewer's concern: "Refinements or
	groundwater monitoring stations which help to	additions to the listed triggers and thresholds may occur in the future as new and/or
	define larger scale geographic and temporal	updated research, standards, permits, or rules and data are analyzed and
	conditions, but the spatial extent of these is not	incorporated by the PDT."
	adequate to specifically address the effectiveness	
	of the seepage barrier or other CEPP components.	5. Regarding need to expand monitoring area, the following text exists in the 6-page
	Additional surface water and groundwater	LEC seepage barrier section of the AM Plan: "It is anticipated additional monitoring
	monitoring stations would be required to assess	will be necessary for the Project and that the monitoring suggested here will be
	potential affect of the seepage barrier, pumps and	reviewed during CEPP Design to adjust to potential needs or changes in data
	detention areas on water flows, stages and quality	availability that may occur after publication of this adaptive management plan. Costs
	in the adjoining and downstream canals and	for the proposed monitoring have been included in the Monitoring Cost Table."
	wellfields,	
MDC-9	Savings Clause Baseline	Consistent with the WRDA 2000 and the Programmatic Regulations, the savings
		clause analysis identifies the effects of the plan, not non-CERP actions (including, for
	Miami-Dade has clearly stated from the beginning	example, 2008 LORS and ERTP). The analysis therefore compares the Initial Operating
	of CEPP discussion that the Savings Clause	Regime with the project (Alt 4R2) to the Initial Operating Regime baseline without the
	modeling analysis should be based upon	project (IORBL1). Although Annex B additionally includes comparison of Alternative
	comparison to a baseline condition that describes	4R2 with the two existing baseline conditions (2012EC and ECB), to inform evaluators
	the flood level of service and water supply	of the cumulative potential effects of both CEPP and other intervening CERP and non-
	characteristics that existed on the date of	CERP projects relative to conditions experienced previously, this information is not
	enactment of WRDA 2000. Despite clear and direct	enactment of WRDA 2000. Despite clear and direct used to determine compliance with the requirements of the Savings Clause. The

IORBL1 condition maintains Zone A of the ERTP WCA 3A Regulation Schedule as the

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MDC-10	Sea Level Rise Considerations Miami-Dade identified evaluation of projected sea level rise as an issue during CEPP scoping, particularly from the perspective of maintaining freshwater flows and stages so as to one strategies for protecting coastal water supply wells from saltwater intrusion, and also from the	The USACE sea level change guidance (EC 1162-2-212) requires an analysis of project performance as impacted by projected sea level change. The sea level change analysis performed for the CEPP project is focused on the primary benefits of the project which measure ecological restoration. Since water supply and coastal drainage conditions are not significantly altered by the CEPP project, per the guidance, they need not be included in the sea level change analysis.
PRIVATE	perspective of system structure operations for maintaining flood control. We are pleased that there is some consideration of this issue, but the discussion in the report largely addresses estimation of the effect of sea level rise on project ecological benefits in coastal wetlands. Miami-Dade recommends that sea level rise considerations also take into evaluation of CEPP operations for drainage and for saltwater intrusion in coastal wellfields.	
ARTHUR R. MAR	ARTHUR R. MARSHALL FOUNDATION & FLORIDA ENVIRONMNETAL INSTITUTE (MARSHALL)	STITUTE (MARSHALL)
MARSHALL-1	We are pleased to provide written comments and a notional CEPP Ecosystem Services Valuation (ESV) of Benefits and Costs, based on CEPP Habitat Unit	Thank you for your comment in support of producing ecosystem services values to communicate the benefits of CEPP. The Jacksonville District of USACE intends to
	Assessment (HUA) in two attachments: (CEPP Draft PIR Comments.docx and CEPP alt Benefit to Cost V2.XIsx)	publish the CEPP ecosystem services report in a peer-reviewed science journal to further increase its communication influence. The team is aiming for publication before or near the date of the release of the final CEPP PIR.
	We support CEPP as the first step in CERP to restore sheet flow as envisioned in the 1981 Marshall Plan published as Friends of the	Regarding comparing alternative plans (i.e. comparing sheetflow to storage options), the CPDP ecosystem services renot does not provide any comparisons of alternative
	Evergiades News Letter and petition, by Marjory Stoneman Douglas: <i>Effect repair</i> requires restoration of sheet flow to the	plans. It provides only a comparison of the future without the TSP and the future with the TSP. The CEPP ecosystem services team was not tasked to (or able to) provide ecosystem services assessments of each alternative plan. Future ecosystem services
	greatest possible extent from the Kissimmee Lakes to Florida Bay The purpose of this petition is to achieve environmental benefits accruing form repair of the Everglades. As it	efforts could take on such a task if feasible and appropriate.
	was in the Marshall Plan, benefits is a powerful	

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MARCHAIL 2	benefits appearing some 175 times in the CEPP brack with the word benefits appearing some 175 times in the CEPP main document. However the absence of a publishable ecosystem services valuations (ESV) to define benefits, relative cost, thus also leaving absent a clear measure of CEPP return on investment, is a deficiency that makes the CEPP PIR sticker shock price harder to sell; as noted by the National Research Council (NRC 2005) no publishable value has default of zero (0). A Total Economic Valuation of CEPP benefits, a synthesis format per NRC 2005 remains an unfulfilled challenge to what could be a major enhancing feature for better environmental decision-support. Based on CEPP ESV calculations in the attached spread-sheet, and previous demonstrations. We conclude that a TEV of benefits will always lead to a robust B:C calculation of an order of magnitude approximating. 20:1. We also conclude that the value of restoring sheet flow is much greater than the value of a massive reservoir system in an analysis of alternatives trade-off using the B:C ratio.	Alt AD redirects on success of anticoimptely 210 000 sees feet not user of clean
WARSHALL-2	in the ist of public commens received summarized in the WRAC update, we would emphasize the need for a flow through system and additional land acquisition in the EAA.	An Artz Tedinects an average or approximately ZLUJOLO acre Tee Per year of clean freshwater into the central portion of the Everglades that would otherwise be undesirably discharged to the Northern Estuaries. The concept of a "flowway" or broad shallow marsh area that is used to flow water freely from take Okeechobee to one or more of the WCAS was screened from further consideration as part of the CERP. Further information on the evaluation of this concept can be found in the C&SE Comprehensive Review Study (USACE 1999).
MARSHALL-3	The result is a demonstrated notional TEV of \$23.353 Billion at an estimated cost of \$2.024 million, for a benefit/cost of £6.36. The calculated B/C ratio of 26.36 fell just slightly higher than the	The result is a demonstrated notional TEV of Thank you for your comment. The CEP team used published and approved benefit \$53.353 Billion at an estimated cost of \$2.024 transfer methods to monetize CEP's ecosystem services values. In addition, the million, for a benefit/cost of 26.36. The calculated team's task was to focus specifically on the difference in value between the future B/C ratio of 26.36 fell just slightly higher than the with CEPP and the future without CEPP. The values reported for CEPP ecosystem

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	same range of values demonstrated by our ARM	services are the net difference between the future with and without CEPP. These
	2010 summer interns where b/c ≈ b:c ranged from 5 to 24	points may account for the difference in the values calculated by the LEPP team and by the Marchall Equindation. The CEDI team encourages the Marchall Equindation to
	3.00 24;	by the Manshall Countaction. The Cert feath encourages the Manshall Foundation to bublish their TEV results in a peer-reviewed economic journal so that the results may
		be accessed and used widely. The team believes it is not sound to use the monetized
		values to calculate a cost-benefit ratio and therefore does not provide a ratio in the
MARSHALL-4	Thus robust B:C ratios greater than 20:1 should be	Thank you for the effort to provide results of ecosystem services calculations.
	no surprise, in the case of the attached calculations	Unfortunately it seems that the methodology does not follow benefit transfer rules
	giving a B:C of 26.36, a few comments: (1) The	that the CEPP team followed. However, the concept of calculating ecosystem
	large B:C should be no surprise; (2) the ESV	services per habitat unit is potentially very useful to USACE and will be communicated
	calculation based on HUA may be mildly optimistic,	to USACE employees who are dedicated to identifying the most practical ways for
	hased on nerformance measures (3) For a	OSACE teams to calculate ecosystem services, main you for suggesting to calculate acceptant cardinate habitat unit
	conservative estimate of the value of wetlands,	
	swamps (forested wetlands) and estuaries, for back	
	of the envelop calculations: Think \$10,000 per acre	
	per year and multiply \$10,000 by number of acres	
	and years of life cycle (~40 years).	
MARSHALL-5	We support CEPP as an initial increment of the	Thank you for your support of CEPP.
	Marshall Plan, 1981, which had as its central	
	element, what became Plan 6 in 1994. This was	
	not accident. Art's vision expressed in the 1981 ~	
	1984 Marshall Plan, published by Marjory	
	Stoneman Douglas as a Friends of the Everglades	
	News Letter, was to restore sheet flow from the	
RANDCHAILE	In contact of a principle objective of CEDD and this	The CEDD is seminared of increments of project companies that were identified in
ואושטאוושרריים	as Euli DECOMP and rectoring habitat and	The Cert is collipped of inclements of project components may were identified in
	functional quality. We need to keep our eyes on	portions (scales) of individual CERP components. It is envisioned that later studies
	the prize. Given the WRAC comments October 3,	will formulate additional increments of CERP components to expand upon this initial
	2013, that is not happening. The devil remains in	"increment" to achieve the level of restoration envisioned for CERP.
	the details which impedes the total ecosystem	
	approach, a tenet of the Task Force strategic plan.	
MARSHALL-7	This immediately brought to mind the need to	Thank you for your comment. Although CEPP increment 1 will not restore pond apple
	restore the pond apple forest in CERP/CEPP as	forest, the value of this forest type is recognized and should continue to be
	Previously supplement of the models of (#) models of	considered in taxal c two Braces resolution planning circus.

CEPP Final PIR and EIS

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COMMENTER	AGENCY/PUBLIC COMMENT CORPS RESPONSE
	the spatial extent of natural area; (2) restore habitat and functional quality, and increase native special extent of natural area; (2) restore habitat and functional quality, and increase native special experies and abundance per CERP Table 5-1 goals and objectives. Connecting the dots to the previous presentation which mentioned the Okeechobee Gourd as an endangered species. The pond apple forest provides the habitat for the Okeechobee Gourd. Recognizing that actions on many of these comments must come in subsequent CEPP increment 1 as a significant step to restore the Everglades and save the planet.
AUDUBON OF FOUNDATION/F CONSERVATION (NGOs)	AUDUBON OF FLORIDA/AUDUBON SOCIETY OF THE EVERGLADES/CLEAN WATER ACTION/DING DARLING WILDLIFE SOCIETY/FUERGLADES FOUNDATION/FLORIDA WILDLIFE FEDERATION/FLORIDA OCEANOGRAPHIC SOCIETY/LEAGUE OF WOMEN VOTERS OF FLORIDA/NATIONAL PARKS CONSERVATION ASSOCIATION/NATURAL RESOURCES DEFENSE COUNCIL/SIERRA CLUB/SOUTH FLORIDA AUDUBON SOCIETY/TROPICAL AUDUBON SOCIETY/ROPICAL AUDUBON SOCIETY (NGOS)
NGO-1	On behalf of the above listed organizations, we Undul like to thank you for the opportunity to comment on the Central Everglades Planning Project (CEPP). Timing is of the essence to halt irreversible ecosystem degradation and avoid the high costs of delay. As a pilot project, CEPP embodies the sound planning and unprecedented public input that can be accomplished with modernized planning and provides a significant step to restoring America's Everglades. Thus, we implore you to highlight the success of this effort and eliminate any remaining procedural obstacles to deliver a Chief's Report on this historic project by December 31, 2013. The CEPP Ientatively Selected Plan (TSP) is a worthy investment that delivers significant benefits to reduce damaging discharges to the Caloosahatchee and St. Lucie estuaries; to restore

Appendix C.3

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	habitat in the central Everglades, focusing on the	
	"River of Grass"; and to deliver an annual average	
	of 210,000 acre-feet of water from Lake	
	Okeechobee to the central Everglades, Everglades	
	National Park (ENP) and Florida Bay.	
NGO-2	Pilot Project Success	Thank you for your comment supporting the team's evaluation of ecosystem services
	The bundling of project elements to produce a	and implementation of the Civil Works Program Pilot Study Implementation. This
	cost-effective TSP, which delivers broad benefits,	study process continues to use quality planning practices and is intended to increase
	provides a model for long-term success in	public participation, broaden public input and shorten the timeframe for completion
	advancing Everglades restoration. We are delighted	of a pre-authorization (planning) study,
	with efforts to capture the value of ecosystem	
	services postulated by this project and encourage	
	this type of evaluation going forward. We applaud	
	the utilization of existing data and tools developed	
	in previous Decompartmentalization and Sheet	
	Flow Enhancement Project (DECOMP) and other	
	previous planning efforts. Moreover, the public	
	engagement model used by the South Florida	
	Ecosystem Restoration Task Force created an	
	extraordinary platform for stakeholder	
	participation in this truncated timeline that we	
	hope to see replicated. We acknowledge that	
	concerted efforts by the PDT have already reduced	
	anticipated project costs by over \$200 million	
	dollars. We look forward to continuing to find cost	
	control measure and taking advantage of the South	
	Florida Water Management District's experience	
	and proficiency in constructing restoration projects	
	within this unique ecosystem. The significant	
	leadership undertaken by the state and federal	
	partners to overcome obstacles to advancing this	
	project should be heralded. There are some	
	uncertainties inherent to a project of this scope	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	that includes a considerable implementation	
	period, These uncertainties should be	
	acknowledged and addressed during the course of	
	executing Everglades restoration but should not	
	become justification to forestall the	
	implementation of CEPP or delay the substantial	
	ecosystem benefits provided by this project.	
	CEPP's adaptive management plan provides	
	needed flexibility and should be utilized.	
NGO-3	Endangered Species Recovery	Thank you for your comment. The Final PIR/EIS will include the preliminary Biological
	Everglades restoration is good for endangered	Opinion that will outline the anticipated monitoring and mitigation measures to
	species throughout the ecosystem. The CEPP TSP	potentially offset adverse effects.
	benefits more than 1.5 million acres of habitat	
	across the Greater Everglades, from the northern	
	estuaries, Water Conservation Area 3A (WCA-3A)	
	and Water Conservation Area 3B (WCA-3B), ENP,	
	and Florida Bay as well as a vast estuarine area	
	along the SW coast of Florida from Whitewater Bay	
	to Broad River. Overall, the TSP is best for the	
	Everglades food web and endangered species such	
	as the Everglade Snail Kite, Wood Stork, and	
	American crocodile. Benefits to the Cape Sable	
	Seaside Sparrow (CSSS) will be realized in the long	
	run as we continue to shift the balance of flow	
	from the S-12s through WCA-3B into Northeast	
	Shark River Slough (NESRS). CEPP takes a first,	
	significant step at doing that.	
	We are encouraged by agency efforts to pro-	
	actively manage habitat to ameliorate any short-	
	term impacts to CSSS associated with	
	construction of the TSP while we wait for	
	CEPP to come online. These changes include,	
	but are not limited to, revisiting operation	

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COMMENTER	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
	regimes including the Everglades Restoration	
	Transition Plan which will be revisited in 2016.	
	If potentially adverse effects are observed or	
	predicted, longer-term impacts to CSSS	
	th the operation of proj	
	would be addressed through operational	
	monitoring and adaptive management actions.	
	We look torward to reviewing the service's	
	analysis of the modeling results for hydrologic	
	consultation must address notantial adverse	
	effects to the CSSs, including by requiring robust	
	monitoring of habitat conditions and breeding	
	success and clear triggers for mitigation action	
	in the event of adverse effects, with mitigation	
	actions agreed to in advance. We urge the	
	agencies to advance CEPP and Everglades	
	restoration while continuing to ensure an	
	adequate nesting window for all CSSS	
	subpopulations and hydrologic regimes that	
	support the bird's habitat short-hydroperiod	
	freshwater marl prairies in the southern	
	Everglades,	
NGO-4	Water Supply Benefits	Thank you for your comment and your attention to this important area in CEPP. In
	The TSP results in meaningful restoration of the	Annex D Section 1.4.4 the CEPP adaptive management plan recognizes the need to
	heart of Everglades and is consistent with CEPP's	evaluate the design needs for seepage management in the Lower East Coast in order
	three initial project purposes to: reduce damaging	to provide project benefits while meeting water supply and flood risk management
	discharges to east and west coast estuaries; restore	specifications. Baseline data will be collected before and during PED phase to inform
	habitat in the central Everglades focusing on the	Illial design of project leatures.
	"River of Grass"; and deliver "new" sources of	
	clean water to the central Everglades and ENP.	
	This plan successfully increases water quantities	
	delivered south to the natural system and	
	municipal users without reducing the levels of	
	service for agricultural or other existing legal users	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	as provided for in the Water Resources	
	Development Act (WRDA) 2000 Savings Clause.	
	Seepage management features proposed are	
	necessary to reduce the loss of water from the	
	natural system and are key elements to avoid	
	flooding in urban and agricultural communities.	
	We support the adaptive management plan	
	language for water quality monitoring, including	
	salinity, in Biscayne Bay that result from seepage	
	controls. We caution that underground seepage	
	barrier walls are permanent structures and request	
	that design need be continually evaluated prior to	
	implementation of this feature. We should also	
	continue to establish baseline data to better	
	understand any canal and groundwater flow	
	impacts. If potentially adverse effects are	
	observed or predicted, longer-term impacts to	
	Biscayne Bay associated with the operation of	
	project features should be addressed through	
	operational monitoring and adaptive management	
	actions.	
NGO-5	Recreational Opportunities	Thank you for your support and comment.
	The CEPP TSP embraces innovative partial backfill	
	and plugging opportunities in the L-67A, L-67C and	
	Miami Canal that create continued fishing	
	opportunities and restore sheetflow. CEPP will	
	provide greatest recreational benefits in the dry	
	season, when soils are currently at highest risk of	
	oxidation leading to habitat (ridge-and-slough and	
	tree island) loss—particularly in northern WCA-3A,	
	NE SRS, and WCA-3B. As a result, the TSP will cut	
	the number of fire closures for recreationalists by	
	half, while reconnecting habitat and hydrology	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	needed to protect remaining and restore lost	
	habitat. Restored ecological connectivity between	
	WCA-3A, WCA-3B and Everglades National Park will	
	also improve estuarine conditions and fisheries	
	habitat in Florida Bay and along the southwest	
	coast of Florida.	
NGO-6	Restoring Sheet Flow	Thank you for your comment and attention to the L-67D feature. We concur that
	The Blue Shanty Flow-way (L-67D) feature provides	removal of obstructions to flow through the Everglades is fundamental to advancing
	a unique opportunity to restore sheet flow while	
	utilizing an already impacted part of the landscape.	does not reduce the level of service for flood protection as of 2000 and in accordance
	We must remain focused that this feature is	with applicable law. The function and integrity of the C&SF flood protection system
	intended to allow for restoration of sheetflow, the	provided by the croy A and croy of levee system mast be maintained rollowing our re- implementation and CEDD degradation of nortions of the LEZ C and L.39 layers must
	creation of ridge-and-slough habitat and fishery	be offset with additional infrastructure and operational constraints that maintain the
	improvement. The L-67D is a necessary prosthesis	pre-project level of flood protection and account for any potential increased design
	to orient flow in such an impacted system that has	risk. The details of additional infrastructure, and how it would interface with
	undergone significant soil oxidation/elevation loss	operations and existing infrastructure, will be determined in the future as adaptive
	and landscape pattern deterioration and should	management, Pre-Construction Engineering and Design (PED), and as other
	not be interpreted or designed as a flood control	information becomes available for this area. Consideration of a new L-67 D levee
	structure. We support the use of adaptive	(currently included as a component of the CEPP recommended plan), including its
	management to determine the true need for, best	Tootprint (Width/neight), costs, and permanency, will be cautiously considered and enhiast to applicable policies and permitting
	use of, placement for and design needs for this	subject to applicable policies and permitting.
	feature. Current criteria mandating a 6-ft high	
	levee with a 14-ft wide crest and 3:1 sloping banks	
	constitute an unnecessary level of flood control to	
	an undeveloped natural wetlands area.	
	Furthermore, adequate seepage control benefits	
	for WCA-B can be achieved by utilizing a temporary	
	berm to "train" the River of Grass flow from gated	
	structures along L-67-A while providing significant	
	cost savings. We remain committed to feature	
	refinements throughout the design process that	
	allow us to greatly increase ecological connectivity	
	through the degradation of the L-29 and is	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	compatible with the 2.6-mile bridge provided for in	
	the Tamiami Trail Next Steps project. The removal	
	of existing levees and other obstructions to flow is	
	fundamental to advancing restoration objectives	
	envisioned in CERP.	
NGO-7	Conclusion	Thank you for your comment.
	We believe that the CEPP reflects a tremendous	
	undertaking and the TSP achieves the highest	
	ecosystem benefits possible within existing lands in	
	public ownership. As plans to sequence	
	interdependent projects are developed, concurrent	
	construction of multiple projects should be	
	prioritized to avoid implementation delays. We	
	urge that all opportunities to begin construction of	
	CEPP as soon as possible be explored.	
	We commend the Project Delivery Team on this	
	highly successful pilot planning effort and honor	
	their tremendous efforts by remaining committed	
	to ensure CEPP's expediting this process are not	
	undermined by bureaucratic delays. A Chief's	
	Report by December 2013 and inclusion of CEPP in	
	a ZULIS WRDA is essential to our ability to increase	
	relief to the northern ectuaries and provide chort	
	term ecological benefits for restoring America's	
	Everglades.	
CLEAN WATER ACTION (CWA)	CTION (CWA)	
CWA-1	Thank you for your leadership and the tremendous	Thank you for your comment.
	effort of the Army Corps in working to prepare the	
	draft Project Implementation Report (PIR) for the	
	Central Everglades Planning Project (CEPP). Clean	
	Water Action looks forward to reviewing the PIR	
	closely now that it has been made publically	
	available as of this morning. We applaud the	

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	dedicated effort of the Army Corps and the South	
	Horida Water Management District teams that led to this decisive next step toward restoring much-	
	needed flow to the southern Everglades	
	ecosystem.	
CWA-2		Thank you for your comment.
	Congress considering the Water Resources	
	Development Act (WRDA) of 2013, we have the	
	authorized this vear. If this window of opportunity	
	is missed, CEPP may be forced to wait in the queue	
	for Congressional authorization for years while the	
	ecosystem and surrounding communities	
	including those of the St. Lucie and Caloosahatchee	
	estuaries - continue to decline and suffer. We	
	simply cannot wait.	
CWA-3	Given the narrow window of opportunity available	Thank you for your comment.
	with WRDA, Clean Water Action urges you to	
	ensure that the public comment window be kept to	
	the minimum requirement of 45 days and not be	
	extended any further. Even pushing the comment	
	period by an additional two weeks could mean	
	missing the December 31st deadline for 2013	
	authorization. Given the tremendous effort already	
	exerted by agency staff, stakeholders, and the	
	public over the past 18 months, we hope you will	
	use your leadership position to ensure that	
	momentum will not let up as the deadline	
	approaches.	
SIERRA CLUB (SC		
SC-1	On behalf of the Sierra Club Everglades restoration	Thank you for your comment.
	team we would like to thank you for your work on	
	developing the Central Everglades Planning Project	
	(CEEP) and on providing us with the opportunity to	
	comment on this project. We applaud the Army	
	Corps of Engineers efforts in developing and	
	implementing this massive project in restoring	
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	clean water flow throughout the Everglades. This letter is in addition to the comment letter we	
	submitted with other environmental organizations	
SC-2	A major concern we have is in the timing of the	Section 6.7 outlines the other projects which CEPP, water quality constraints and
	components and whether they will achieve a	other factors such as funding that will effect CEPP implementation. Implementation
	to prevent more serious harmful algal blooms. We	of the cent, which cept is a part of, is a folig-term and complehensive endeavor that
	believe that the discharges of polluted waters into	
	the Caloosahatchee and St. Lucie estuaries should	
	be addressed immediately through operational	
	changes and through expediting those parts of the	
	project that will permit water from Lake	
	Okeechobee to be cleaned to the 10 parts per	
	billion or less and transported south to the Park.	
	If we wait till 2018 to address the discharge of	
	these heavily polluted waters into	
	e and St. Luci	
	cumulative effect will continue to be devastating to	
	our environment, and we believe it will produce a	
	massive die off of coral reefs off of South East	
	Florida. Many marine animals have a symbiotic	
	relationship to these corals in Palm Beach and	
	Broward counties. These reefs also play a	
	protective role during severe storms by absorbing	
	storm wave action. Nutrients and turbidity that	
	blocks sunlight destroy reefs.	
	Since tourism is the number one source of income	
	for the state of Florida it is in Florida's best interest	
	to make sure the environment that draws people	
	from other states to ours is pristine and well	
	preserved.	
SC-3	We encourage you to take the following actions:	Storage and treatment of new water will be possible with the construction of the
	 Expedite the building of FEB and STA's 	14,000 acre FEB and associated distribution features on the A-2 footprint that is
	that will clean the water from Lake Okee-	
	chobee.	existing STAs. The A-2 FEB will accept EAA runoff and a portion of the Lake
		Okeechobee water currently discharged to the Northern Estuaries. To ensure that

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Pursue the purchase of new lands that	CEPP plan meets state water quality standards, discharge permits with associated
	could facilitate a flow way south.	effluent limits will govern discharges from the state facilities to WCA 3.
	Set up operational changes that permit	The concent of a "flowway" or broad challow march area that is used to flow water
	rain driven storm water in the WCA's	freely from Lake Okeechobee to one or more of the WCAs was screened from further
	when they are experiencing too much wa-	consideration as part of the CERP. Further information on the evaluation of this
	ter to be transported into Everglades Na	concept can be found in the C&SF Comprehensive Review Study (USACE 1999).
	tional Park when the water quality in the	
		The Florida Department of Environmental Protection (FDEP) is in the process of
	4) Increase BMP requirements that reduce	developing a Basin Management Action Plan (BMAP) for Lake Okeechobee pursuant
	nutrient flows into the lake and we op	to section 403.067, Florida statutes. This BIMAP Will be an iterative effort to address
	pose back pumping of storm water into	Water quality issues in Lake Okcetillobee. The DOI Tamiami Trail Next stans bridging and roadway modifications is recognized as
	the lake. Additional distributed water	a project dependency and is required to be completed prior to increasing the
	storage will reduce these harmful dis	capacities of S-333 and S-356 along with implementation of WCA 3B inflow structures
	charges to the estuaries.	along the L-67 A levee, gaps in the L- 67 C levee and Blue Shanty flowway (L-67 C
	Take advantage of the Tamiami Trail	removal, L-29 removal).
	bridging to send as much clean water as	
	possible into the park.	
	Adaptive management permits you to modify your	
	plans as you proceed. Please take advantage of	
	any opportunities to increase sheet flows that	
	clean water and sends it south towards Everglades	
	National Park rather than into the estuaries.	
SAVE THE MANATEE CLUB (SMC)	TEE CLUB (SMC)	
SMC-1	Save the Manatee Club has reviewed the Project	Thank you for your comment.
	Implementation Report (PIR) for the Tentatively Selected Plan (TSP) Alternative 4R2 and	
	recognizes the proposal for CEPP as one important	
	component of a much larger plan of action to	
	regulate discharges from Lake Okeechobee to the estuaries.	
SMC-2	We support CEPP because it will promote	Thank you for your comment.
	conditions to help restore seagrasses important for manatee forage, and ovster beds important for	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	water quality and clarity, within the St. Lucie and claosahathrate estuaries, by reducing flows to each from Lake Okeechobee by 23% and 25% respectively. Unfortunately, CEPP is only predicted to increase coverage of seagrass shoots by 8.5% in the Caloosahatchee and 6.6% in the St. Lucie (PDF p. 199). Florida Bay will also benefit from CEPP. Decause historic management of Lake Okeechobee has greatly reduced flows to the south and into the Bay, creating hypersaline conditions that have killed expansive beds of turtle grass (Tholassia). CEPP will increase southerly flows to Florida Bay. We offer the following comments and questions for consideration as the project plans are finalized.	
SMC-3	Climate Change We were pleased to see climate change scenarios considered in developing the recommended plan. If future adaptations to project construction and/or operation are necessary to respond to sea level rise, changes in rainfall, or other climate changerelated scenarios, we request that plans to alter operations of CEPP components consider not only the impact on the land and water within the CEPP boundary, but also those areas outside the boundary that might be affected by such decreisions. Stated simply, we don't wish to see the environment outside the project boundary degraded or compromised in the name of meeting project goals for CEP.	To address any future uncertainties related to incremental implementation it is recognized that prior to implementation of each phase, additional detailed analyses pertaining to that phase of implementation will be considered in development of the Project Operating Manual. These analyses will include demonstration that Savings Clause and Project Operating Manual. These analyses will include demonstration that Savings Clause and Project Assurances requirements for the project phase will be met prior to PPA execution. Adaptive management options are also a key tenant to reducing risk and addressing uncertainty as construction progresses. As the Project Operating Manual and Water Control Plans are developed conditions at that time will be used to ensure project benefits are realized without sustaining cumulative impacts outside the project footprint.
SMC-4	Nutrient Concerns Related to Increased Water Availability. The report states that the TSP will increase water supply for municipal and agricultural users (PDF p.5) then says the project will increase water wailable for municipal and industrial users but maintain "existing water supply performance for agricultural users in the Lake Okeechobee Service Area (PDF p.9). Clarification is needed as to whether additional water will be made auslabe for agricultural uses as a result of this plan. If	The SFWMD existing BMP regulatory program and the Water Quality analysis included in Annex F of the document demonstrates that the existing and planned water quality treatment facilities in the EAA will be capable of sufficiently treating the CEPP flows prior to discharge to the Everglades Protection Area. The USACE and the SFWMD believe that the ongoing monitoring efforts and planned CEPP water quality monitoring will be sufficient to demonstrate compliance with water quality requirements. Section 6.8.6 and Annex B will clarify that the additional water made available in LECSA 2 and LECSA 3 will be available for municipal, industrial and agricultural users.

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	additional water is made available, then additional	
	nutrient- rich runoff will be produced, and the	
	SFWMD should adjust BMP requirements	
	accordingly to ensure that the existing problems	
	associated with runoff are not exacerbated.	
	Additionally, producers of nutrient-enriched runoff	
	in the Everglades Agricultural Area (EAA) should be	
	financially responsible for the treatment of this	
	polluted water. This component of CEPP is not a	
	financial burden that should be carried by the	
	public, but by the private industry creating the	
	pollution. Additionally, it is not clear how the	
	additional 12 million gallons per day for Broward	
	County and 5 million gallons per day for Miami-	
	Dade County will be utilized. Although the report	
	states that the stormwater treatment areas (STAs)	
	will reduce phosphorus concentrations in the water	
	to meet required water quality standards, this	
	should be closely monitored, particularly if flows	
	through the STAs are increased. Given the high	
	nutrient content of water moving through this	
	system, it will be important to ensure that nutrient	
	loads to coastal waters are not increased as a result	
	of this water delivery. The same assurances are	
	needed for water that will be routed south to	
	Florida Bay.	

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
SIMC-5	AGENICY/PUBLIC COMMENT Clarifying Explanation of Benefits It is stated that an average of 1.7 billion gallons of water per day is discharged to the Atlantic and Gulf (PDF p.15) and CEPP will redirect a portion of this. Unfortunately, the report does not provide the number of gallons per day by which discharges will be decreased, instead referring to the amount of water that will be redirected south through flow equalization basins and STAs. Even this amount is not characterized in gallons per day, but as "approximately 210,000 acre feet per year, annua average" - a figure not readily comparable with gallons per day. This point is further confused with the report states that CEPP will capture and annual average of "75,000 acre feet of water from being lost to tide in the Caloosahatchee (an 18% increase). Later (PDF p.191), the project is stated to beneficially acres from the St. Lucie Estuaries, the Greater (PDF p.191), the project is stated to beneficially advantaged and Florida Bay, and the increase in habita units afforded by the project is provided. Standad units afforded by the project is provided. The report states that 160,000 acre feet per year will enter Florida Bay, but it is not clear what will become of the other 60,000 acre feet per year that will not travel to the northern estuaries. Will any of this go to aquifer recharge? If so, then this benefit should be stated. The conclusion of the report should introduce those CERP projects that are intended to address the remainder of the 1.7 intended to address the remainder of the 1.7	COMPS RESPONSE The recommended plan provides an average of approximately 210,000 acre feet per year of additional freshwater flowing into the central portion of the Everglades. This equates to approximately 187 million gallons per day. Acre feet are consistently used throughout the report to describe changes in the distribution or quantity of water throughout the project area. Acres are also consistently used to describe the spatial extent of the project area. Acres are also consistently used to describe the spatial action of the project area and the Sharib should provide storage capacity, the EAA to the A-2 FEB and A-1 FEB. The FEBs would provide storage capacity, the EAA to the A-2 FEB and A-1 FEB. The FEBs would provide storage capacity, attenuation of high flows, and limited pre-treatment prior to delivery of the redirected water to existing STAs, which would reduce phosphorous concentrations in the water to existing STAs, which would reduce phosphorous concentrations in the water to existing STAs, which would reduce phosphorous concentrations in the water to meet required water quality standards. The treated water bugget maps be distributed through WCA 34 to WCA 3B and ENP and Florida Bay us structures and creation of the Blue Shariy Flowway. A seepage barrier wall and pump station will manage seepage to maintain levels of flood protection and water supply in the urban and agricultural areas east of the WCAs and RPP. Detailed water bugget maps displaying differences in the quantity of water distributed to each region of the project area are found in Annex A-2 Reference 4 and Reference 5 of the Engineering Appendix A). The recommended plan is not increasing undesirable discharges to the Northern Estuaries, it is decreasing undesirable discharges. The Draft PIRES acknowledges that further actions are needed to achieve the restoration envisioned in CERP, to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
SMC-6	billion gallons that will not be offset by CEPP. The TSP is intended to benefit both the St. Lucie	billion gallons that will not be offset by CEPP. The TSP is intended to benefit both the St. Lucie Page 133 (Section 5.1.9 Water Quality) of the PDF of the Draft PIR/EIS summarizes

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	and Caloosahatchee Estuaries by decreasing the	results from Alternatives 1-4. The primary focus of the executive summary is Alt 4R2.
	number and intensity of high-volume releases from	Alt 4R2 increased the number of times the low flow criteria was met for the St. Lucie
	Lake Okeechobee, according to PDF page 19. Later	Estuary relative to the EWO. Alternative 482 decreased the number of times the low
	(PDF p.133), it is explained that with the TSP, the	Estuary relative to the 1 wo. Attendance 41/2 decreased the humber of times the 10% flow criteria was not mot from 92 in the FWO condition to 65 with Alternative AR2
	number of low and high salinity events for the	See Figure 6.29 of Annendiv G (Benefit Model) for reference. Any errors within the
	Caloosahatchee will be reduced, and that while the	report with regard to this performance measure will be corrected
	number of high flow events will be reduced in the	
	St. Lucie, the number of low flow events in this	
	estuary will increase. This fact should be pointed	
	out explicitly within the executive summary	
SMC-7	Manatee Considerations	In Biscayne Bay, Alt4R2 provided additional flows when compared to FWO. Alt4R2
	While the TSP will maximize benefits to Florida Bay	provides additional dry season flows throughout the bay and is likely to provide a
	(PDF p.129), it will reduce water flowing into	benefit to the seagrass beds and mangrove communities by providing additional
	another important manatee habitat: Biscayne Bay.	flows to the coast, thereby lowering salinity levels and/or reducing the number of
	Any changes in water flowing to Biscayne Bay	days salinities exceed 40 psu having a minor beneficial effect. Alt4R2 shows slightly
	should be monitored, and impacts to the Bay's	increased flows patterns for both seasons compared to FWO. This information can be
		found in Section 5 of the main report with more details in Appendix C.2.2 in Section
	have "negligible to minor adverse effects" on	
	mangrove communities and seagrass beds in	C. E. E. S. S. J. Allu C. E. E. S. S. Z.
	Biscayne Bay (PDF p.123).	
		Alternative 4R2 includes backfilling the portion of the Miami Canal north of Interstate
	Annex 1 (PDF p.424) states that deep canals are	75 and although manatees can access portions of the Miami Canal, backfilling as
	believed to provide refuge to manatees during cold	described under CEPP is not likely to adversely affect manatees. Depths of these
	periods because these canals retain heat for longer	canals will not be altered with CEPP in a manner that will inhibit warm water refuge
	periods of time. Will CEPP alter manatee access to	for manatees.
	any of these canals believed to provide refuge?	
	And will the depth or flow of water in any of these	All safety features will be maintained and all Standard Operating Procedures during
	canals change in a way that might decrease their	construction and operations for Threatened and Endangered species will be followed.
	utility by manatees during cold events? If so,	
	contingency plans should be developed with FWC	The CERP Interim Goal in Table 6-1 is to reestablish a diverse seagrass community
	and FWS to rescue manatees observed with cold	with moderate plant densities and more natural seasonality, and increase the
	scress in this system, or otherwise in need or	nercentage of Florida Bay having suitable habitat for seagrass growth. With CEDD
	rescue.	innered animals of the major of the Marth Day could be the bear and the bear of the bear o
		improved sampley regimes in the North Bay result in a stable mixed thatsala-
	Safety features (i.e. grating of culverts) must be	Haiodule-Ruppia SAV community. Compared to the Tuture Without condition, CEPP
	maintained not only in those canals known to	shows an increase in Ruppia so there is a more diverse mix of SAV, not just Thalassia.
	_	There is not a desire for Ruppia over Thalassia, just a diverse seagrass community.
	capable of providing access to manatees. All	
	personnel who work in these areas should be	
	trained on spotting manatees and assessing	

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	possible health concerns such as cold stress.	
	With regard to seagrass, the report states (PDF	
	p.201) that the goal is to have a stable mixed community of Thalassia. Halodule and Runnia in	
	North Florida Bay with decreased coverage of	
	Thalassia and increased coverage of Ruppia. The	
	reason for desiring Ruppia over Thalassia is not	
	clear and should be explained.	
SMC-8	We will review the USFWS Biological Opinion	Thank you for your comment and there will be a 30 day public review period of the
	(being prepared in response to the corps may affect, determination) when it is released in	Final PIR/EIS that will include the preliminary Biological Opinion.
	December and provide comment if necessary.	
NATIONAL WILD	NATIONAL WILDLIFE FEDERATION (NWF)	
NWF-1	On behalf of over four million members and	Thank you for your comment.
	supporters, restoration of America's Everglades is a	
	top priority for the National Wildlife Federation	
	(NWF). In that vein, NWF strongly supports the	
	Central Everglades Planning Project (CEPP) and	
	urges you to complete a final Report signed by the	
	Chief of Engineers as soon as practicable.	
NWF-2	Progress on this project would be timely. The	Thank you for your comment regarding the Civil Works Program - Pilot Study
	longer water is shunted unnaturally to the east and	Implementation. This study process continues to use quality planning practices and is
	west coasts of Florida, the more degraded the	intended to increase public participation, broaden public input and shorten the
	nd the Caloosa	timeframe for completion of a pre-authorization (planning) study.
	Everglades ecosystem is starved of necessary	
	freshwater inflows. CEPP was contemplated	
	specifically to speed delivery of a project to	
	terreprove of authorization funding construction	
	ulgelicy of audiolization, lunding, constitution	
	and implementation of this project cannot be	
	understated,	
	Even though the planning process for CEPP has	
	been expedient, it has complied with all existing	
	environmental review requirements while	

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	allowing for robust scientific inquiry and public	
	participation. This serves as a model for other	
	Corps ecosystem restoration projects.	
NWF-3	The Tentatively Selected Plan (TSP) would be a	Thank you for your comment.
	wise investment in an international treasure. The	
	an e	
	economic driver. By increasing southerly	
	freshwater flows of over 200,000 acre feet, CEPP	
	will restore the historic River of Grass for future	
	generations.	
	As such, NWF believes a signed Chief's Report for	
	the CEPP Tentatively Selected Plan can and should	
	be delivered to the Secretary of the Army for Civil	
	Works by the end of this calendar year. Thank you	
	in advance for your consideration and for your	
	continued efforts on this important project.	
SUGAR CANE GR	SUGAR CANE GROWERS COOPERATIVE OF FLORIDA (SUGAR)	
SUGAR-1	The Cooperative's grower-members have a direct	All features of the State's Restoration Strategies must be completed and meet state
	interest in CEPP. Our grower-members farm 70,000	water quality standards prior to initiating construction of most CEPP features.
	acres of sugarcane and an additional 40,000 acres	Construction of CEPP project features cannot proceed until it is determined that
	of winter vegetables in the Everglades Agricultural	construction and operation of the feature: a) will not cause or contribute to a
	Area that is part of the lake Okeechobee Service	violation of the State water quality standards. B) will not cause or contribute to a
	Area (LOSA) for water supply from lake	violation of any applicable water quality permit discharge llimits or specific permit
	Okeechobee. This project has ramifications to our	conditions; and c) reasonable assurances exist that demonstrate adverse impacts on
	existing water supply and creates the potential for	flora and fauna in the area influenced by the Project features will occur.
	water quality violations that in turn could impact	
	our growers. Some of our grower-members have	All parties are committed to implementing the State Restoration Strategies, joint
	legal standing in the USA vs. State of Florida	restoration projects, and associated operational plans, in an adaptive manner that is
	(Moreno) federal litigation that enforces the	consistent with the objectives of the underlying C&SF Project. The Corps and the
	conditions of the Consent Decree including the	state will use all available relevant data and supporting information to inform
	water quality limits outlined in Appendix A for	operational planning and decision making, document decisions made, and evaluate
	Everglades National Park and Appendix B for	the resulting information from those decisions to avoid adverse impacts to water
	loxahatchee National Wildlife Refuge.	quality where practicable and consistent with the purposes of the C&SF Project.
		Based upon current and best available technical information, the federal parties
		believe at this time that the State Restoration Strategies, implemented in accordance

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		with the state issued Consent Order and other joint restoration projects, are sufficient and anticipated to achieve water quality requirements for existing flows to the Everglades. If there is an exceedance of the Appendix A compliance limits, which results from a change in operation of a Federal project, and it has been determined that an exceedance cannot be remedied without additional water quality measures, the federal and state partners agree to meet to determine the most appropriate course of action, including what joint measures should be undertaken as matter of exercise any applicable cost share authority. If additional measures are required and murually agreed upon, then they shall be implemented in accordance with an individual PPA's. Failure to develop mutually agreed upon measures and cost share for these measures may impact the State's ability to operate the Federal project features.
SUGAR-2	First, we applaud the efforts of the U.S. Army Corps of Engineers and the South Florida Water Management District in their efforts to streamline the planning process through vertical integration of decision making. CEPP represents the most complex set of features in the Comprehensive Evergades Restoration Plan (EERP) therefore proving to be a huge challenge to complete in the expedited schedule. We compliment the team for listening to concerns and attempting to address the concerns of stakeholders throughout plan development. Please accept the following specific comments.	Thank you for your comment regarding the Civil Works Program - Pilot Study Implementation. This study process continues to use quality planning practices and is intended to increase public participation, broaden public input and shorten the timeframe for completion of a pre-authorization (planning) study.
SUGAR-3	SAVINGS CLAUSE/PROJECT ASSURANCES As the Corps of Engineer's rightly points out in the draft PIR for CEPP, meeting the Savings Clause requirements of Section 601(h) of WRDA 2000 is a hard constraint. In Section 6.1.1 of the draft PIR, the Corps recognizes that while Lake Okeechobee remains the primary source of water for the LOSA	Section 6.1.1 has been modified to incorporate LORS update triggers. CEPP benefits gained from sending new water south from Lake Okeechobee are derived in part from operational refinements that can take place within the existing, inherent flexibility of the 2008 LORS, and in part with refinements that are beyond the schedule's current flexibility. Modifications to 2008 LORS will be required to optimally utilize the added storage capacity of the A-2 FEB to send the full 210,000 ac-ft/vr of new water available in CEP south to the Everglades, while maintaining

agoon-South suite of projects (different than the approved operations contained in WRDA 2007) is considered a partial water supply source transfer. The transfer would not be implemented until the CERP C-44 Reservoir, the inflow canal to the C-23 Basin and Canal is completed."

dependency on the lake Okeechobee Regulation schedule modifications to enable CEPP to convey is necessary to maintain the level of service for water supply for existing legal users dependent on lake Okeechobee, specifically users in LOSA and the More important is the recognition of the water south. This regulation schedule modification Seminole Tribe of Florida.

select group that has followed it closely, it is as implemented by Federal court order. Since the important to add some additional discussion on the importance of these interdependencies so future Table 6-9 depicts the interdependencies among CEPP and non-CEPP features. Deviating from the interdependent non-CEPP features proposed sequencing will upset the requirement to meet Saving Clause provisions for water supply and flood protection and water quality under state law and audience for the PIR is much broader than the readers will be able to understand the significance.

scenario for integration of the CEPP features " such in the final PIR rather than described as states, "the following outlines one potential optional. Otherwise it is impossible to be sure The narrative in the paragraph following Table 6-9,

class limit adjustments made to the Lake Okeechobee inflow and climate forecasts reduced the magnitude of allowable discharges from the Lake, thereby resulting in Most of the 2008 LORS refinements applied in the CEPP modeling lie within the with the exception of the adjustments made to the class limits for the Lake Okeechobee inflow and climate forecasts. Under some hydrologic conditions, the storage of additional water in the Lake in order to optimize system-wide performance and ensure compliance with Savings Clause requirements. However, these class limit changes represent a change in the flow chart guidance that extends beyond the inherent flexibility in the current 2008 LORS. Additional information and documentation of the CEPP Recommended Plan modeling assumptions for Lake bounds of the operational limits and flexibility available in the current 2008 LORS, Okeechobee operations are found in the Appendix A (Engineering) of the CEPP PIR. performance levels.

described in Section 2.5.1. When HHD remediation is completed and the HHD DSAC Schedule which may be developed in response to actions (1) and/or (2) is unknown at this time. It is anticipated that the need for modifications to the 2008 LORS will be implementation of CEPP. Therefore, the CEPP PIR will not be the mechanism to propose or conduct the required NEPA evaluation of modifications to the Lake Okeechobee Regulation Schedule. However, depending on the ultimate outcome of The interdependencies are much more than these future Lake Okeechobee Regulation Schedule revisions, including the level of Independent of CEPP implementation, there is an expectation that revisions to the 2008 LORS will be needed following the implementation of other CERP projects and Herbert Hoover Dike infrastructure remediation. The USACE expects to operate under the 2008 LORS until there is a need for revisions due to the earlier of either of the following actions: (1) system-wide operating plan updates to accommodate CERP "Band 1" projects, as described in Section 6.1.3.2, or (2) completion of sufficient HHD remediation for reaches 1, 2 and 3 and associated culvert improvements, as Level 1 rating is lowered, higher maximum lake stages and increased frequency and duration of high lake stages may be possible to provide the additional storage capacity assumed with the CEPP TSP. The future Lake Okeechobee Regulation initially triggered by non-CEPP actions and that these actions will occur earlier than potential scenarios' and must be acknowledged as | inherent operational flexibility provided with these revisions, CEPP implementation may still require further Lake Okeechobee Regulation Schedule revisions to optimize system-wide performance and ensure compliance with Savings Clause requirements.

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	about what CEPP is and how all the benefits will be achieved assuming the project is authorized	The project dependencies included in Table 6.9 are not optional and is why the Table is included in the PIR as labeled as project dependencies. Section 6.7.1 has been modified to better darify what options exist for sequencing construction of the CEPP project components.
SUGAR-4	WATER QUALITY Impacts to water quality parameters are expected impacts to water quality parameters are expected to occur as a result of diverting an additional 200,000 AF of water from lake Okeechobee into the Everglades. This could trigger a violation of Appendix A of the Federal Consent Decree and result in more litigation by a party to the case or a trird party litigant. The draft PIR recognizes this as an outstanding issue but does not offer up a resolution to Appendix A by way of a modification of the formula, relaxing the limits on dismissing the case as unnecessary in light of the state's program for meeting the strict requirements in the new Clean Water Act permits issued in 2012. In agreeing to release the draft PIR and act as local sponsor, the South Florida Water Management District Governing Board passed a resolution supporting the release of the CEPP draft PIR/EIS for agency and the publics' review. However, in Section 3 and 4 of the resolution, the Board acknowledged the water quality issues and asked that they be resolved prior to implementing CEPP projects. Issues include the need to revise the compliance methodology of Appendix A resulting from a change in operation of a federal project. Failure to develop a mutually agreed upon revised compliance methodology or mutually agreed upon joint measures will preclude the state from joint measures will preclude the state from	The CEPP PIR includes statements regarding the necessity to resolve the Appendix A compliance issue prior to implementing the project.
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	implementing, approving or operating CEPP	
	appoints of operating final PIR should contain an eithe Board's resolution and wimplementation of CEPP featu	
	Further the Governing Board acknowledged that project elements cannot proceed unless/until it is project elements cannot proceed unless/until it is determined that construction and/or operation of the feature: will not cause or contribute to a violation of the permit(s) discharge limits or specific conditions; and reasonable assurance exists that demonstrate adverse impacts on flora and fauna in the area influenced by project element will not occur. This means that the state	
	must meet the terms and conditions of the NPDEs permits and state-issued consent order under the Clean Water Act for operations of the Stormwater Treatment Areas for discharges into the Everglades Protection Area for discharges into the Everglades Protection Area ai roluding the WQBEI effluent limit. The state and federal parties have mutually agreed to implement the 2012 Everglades Restoration Strategies (FRS) suite of projects with permits issued in September 2012. Further, the state legislature rafified these projects and dedicated long term funding to implement the suite of projects designed to come into compliance with the WQBEI. The consent order requires the ERS projects to be complete and operational in 2029.	
	The draft PIR should be clear that construction of CEPP features cannot move forward until this constraint is met.	
SUGAR-5	PROJECT ALTERNATIVE ANALYSIS PROCESS Clearly, due to the interdependencies of Alt4R2 Study, Fina with non-CEPP features and operational changes, require that CEPP does not have stand alone benefits that can It was furth	It was recognized in the Central and Southern Florida Project Comprehensive Review Study, Final Feasibility Report and PEIS 1999 (CERP) that implementation would require that the plan be divided into smaller implementable packages of components. It was further recognized that an adaptive assessment strategy requires incremental

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	be discerned in this PIR. The benefits to the	implementation of the plan components and each increment would be planned and
	estuaries can only be realized after the C-43 and C-	designed to carry the program one step closer to the ultimate goal of ecosystem
	44 reservoirs are built and operational. Then the	restoration (Central and Southern Florida Project Comprehensive Review Study, Final
	CEPP plan provides an increment of benefit.	Feasibility Report and PEIS, page 10-7).
	Benefits to Everglades National Park in moving	
	water south can only be realized by completing the	Section 2 (Existing and Future Without Project Conditions) provides a description of
	Modified Water Delivery Project features and	the FWO project condition. Table 2-2 provides a summary of the status of non-CERP
	operations of the 5-356 pump. Based on earlier	projects, CERP projects, and operational plans assumed to be implemented in the
	studies by the Corps and District the Mod Waters	FWO project condition. Section G.2.S (Northern Estuaries [Alternatives 4R and 4R2])
	Project can provide up to three quarters of the	summarizes benefits to the Northern Estuaries resulting from implementation of Alt
	additional water flow into the Park expected with	4R2. Figures G-28 and G-29 presents the number of times salinity criteria are not met
	the CEPP.	within the Caloosahatchee Estuary and St. Lucie Estuary respectively. Benefits
		attributable to the Indian River Lagoon-South and the C-43 projects can be
	A better alternative analysis may have been	understood by evaluating differences between the ECB and FWO project condition
	realized by evaluating an operational alternative	which assumes implementation of these projects. The differences between the FWO
	that stores more water in the lake and opening the	project condition and the future with project condition (Alt 4R2) are the effects of the
	southern end of the system. Only one alternative	project. Text has been added to this section, as well as Section 6.2 (Environmental
	for north of the Redline was evaluated in the final	Benefits) to further highlight benefits attributable to these projects. Additional
	array of alternatives since deep storage was	comparisons of modeling results for the Northern Estuaries to the IORBL1 which was
	rejected early in the process due to perceived cost.	used for Savings Clause requirements and Project-Specific Assurances can be found in
		Annex B (Analyses Required by WRDA 2000).
		The numose of the MWD project is to improve water deliveries to ENP and to the
		all plants of the property of
		extent practicable, take steps to restore the natural hydrotogical conditions within
		Committee that the initial operational plan for the project has not yet been developed. The
		colps ts letinitating pursuit of operational testing (relaxation of 424/3 gage
		operational constraint and 3-356 test) to utilize the constructed intodiffed Delivery
		complete and peressary approvale (including EDED) have not been attained
		Information from the feet will be used to develop the Final Water Control Plan for the
		MWD project which will allow for re-distribution of existing water flow from Western
		Shark River Slough to Northeastern Shark River Slough.
		A full array of reasonable alternatives was considered. Consideration of multiple
		options for providing additional storage in Lake Okeechobee was considered as
		documented in Appendix E, Section E.1.1.1 and Table E.1-1. The LOOPS model
		provided the opportunity to quickly batch process hundreds of iterations of Lake

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		Okeechobee Regulation Schedule modifications and evaluate the results against key CEPP performance measures to help identify feasible operating protocols for the Lake that represent reasonable and likely implementable future operating conditions under CEP. A mulitude of other storage and treatment options and combination of options north of the WCAs were also considered which included shallow reservoirs (4-tf), deep reservoirs (6-t2, ft deeb), STA's, flow-through marsh systems, and every combination thereof. A full description of the evaluation and screening are provided in Section 3 and Appendix E of the CEPP Draft PIR/ES.
SUGAR-6	ENDANGERED SPECLES ACT REQUIREMENTS The draft PIR recognizes that CEPP will impact endangered species; however, the USFWS has not completed its Biological Opinion (BO). Therefore we reserve the right to supplement our comments regarding endangered species once the BO is available.	Thank you for your comment and there will be a 30 day public review period of the Final PIR/EIS that will include the preliminary Biological Opinion.
DADE COUNTY F. DCFB-1	DADE COLINTY FARM BUREAU (DCFB) DCFB-1 We have worked with the Florida Department of Agriculture and Consumer Services and we fully endorse their extensively detailed comments on this plan.	Thank you for your comment.
DCFB-2	The CEPP seems to assume that Mod Waters will never be operational. We feel it would make much more sense to hold CEPP in abeyance until Mod Waters is fully operational, and until you had enough experience with it to clearly define its capabilities. You could then decide what additional work might be needed. To rush CEPP through Congress when you haven't even operated a very similar project that was approved 24 years ago, and which is already built, does not seem like the right thing to do.	The Corps is re-initiating pursuit of operational testing (relaxation of G-3273 gage operational constraint and 5-356 test) to utilize the constructed Modified Delivery Project features. Information from the test will be used to develop the Final Water Deliveries project which will allow for redistribution of water flows to NESRs. The Corps anticipates an operational plan and completion of MWD prior to CEPP implementation.
DCFB-3	Our other big concern is how the L-31 N and C-111 canals will be operated in the future. The CEP model results show an increase in high canal stages in the critical reach of L-31N between Richmond Drive and the Frog Pond. This is clearly not acceptable. Apparently there is some language in	Relative comparisons between the RSM-GL base conditions and the RSM-GL with project condition (Alt 4R2) provide a meaningful comparison to quantify potential effects of the CEPP project. The CEPP modeling tools were selected at the beginning of the CEPP formulation process, and the same tools were used throughout the screening and alternative evaluations. Section 8.3.2.5 of Annex B includes a detailed description of model performance within cell 4328, located between the C-103 and C-

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	the document that says this is due to a problem	113 Canals, immediately east of the C-111 Canal. Since the model performs well for
	with the model. No plan should move forward	the existing condition (2012EC) but shows high canal stages in the upstream reaches
	based on a computer model that the agencies think	for the IORBL1 and Alt 4R2, the calibrated roughness coefficient is likely too high and
	is flawed in one of the most important areas. We	the resulting upstream canal stages (and adjacent groundwater levels) are predicted
	suggest getting the model right and then moving	higher by the RSM-GL than would be truly expected for the future with project
	forward with a plan you can be confident will work.	conditions. This artifact of the model can only be addressed during model calibration
		and, in this specific case, should not be evaluated as representative of the predicted
		project performance. The expedited schedule of the CEPP project did not afford the
		opportunity to revisit the RSM-GL model calibration, and incorporation of this change
		would not be anticipated to change the TSP selection.
DCFB-4	The C-111 system is another example where you	Information has been added to Section 6.7.1 regarding the implementation of CEPP.
	need to slow down and learn more about what you	In order to minimize uncertainties, the project will likely be implemented over a
	have already built before you try to approve a	number of years with three separate project partnership agreements, and has a
	complicated plan based on how you think	robust adaptive management plan built into the implementation of the plan. The
	something that is already in place will work. Since	multiple PPAs will provide the opportunity to ensure the current conditions at the
	2000 there have been 5 new pump stations and 5	time of construction are captured and provide assurance in the functionality of the
	separate impoundments built in the C-111 Basin.	plan. The adaptive management plan (annex D) will afford the opportunity to provide
	Two of these pumps have been operational for	further insight into the operation of the plan and lend flexibility to the
	only a single year. There is also a new project in	implementation and management of the plan.
	place in the 8.5 Square Mile Area that has not been	
	fully utilized yet, and the final structural element to	
	tie the two areas together is yet to be done. The	
	CEPP plan will put a lot more stress on these	
	features, and the CEPP model has a flaw in how it	
	simulates this area. You need more experience	
	operating this system once it is complete before	
	you propose a major new plan that will place more	
	demand on this untested system. Again, how can	
	we have confidence in this plan when we're not	
	sure how the one you have yet to complete will	
	work?	
DCFB-5	Please consider slowing this process down to allow	The Corps is actively re-initiating pursuit of operational testing (relaxation of G-3273
	time to finish the Mod Waters and C-111 Projects	gage operational constraint and S-356 test) to utilize the constructed Modified
	and fully document and understand what they can	Delivery Project features. Information from the test will be used to develop the Final
	do before you start a whole new round of changes.	Water Control Plan for the Modified Water Deliveries project which will allow for re-
		distribution of water flows to NESRS. The Corps anticipates an operational plan and
		completion of MWD prior to CEPP implementation. There will be sufficient time to

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		evaluate system response to the implementation of the Modified Water Deliveries project prior to CEPP implementation.
FLORIDA POWER	FLORIDA POWER & LIGHT COMPANY (FPL)	
FPL-1	The Draft Integrated Project Implementation	Concur. Upon authorization, appropriation and start of PED, early coordination will
	Report and Environmental Impact Statement for	begin with FP&L for CEPP facility/utility relocations needs.
	tne central Everglades Planning Project, Section 6.1.7.6. Plan Description. Facility /Utility	
	Power a	
	lines will have to be relocated or abandoned from	
	the areas within the A -2 FEB. Florida Pawer and	
	Light and Quest Communications lines will have to	
	be relocated where the L-29 is being removed. The	
	of the Florida Power and Trah Tine." FPI	
	early in the design process as possible to avoid or	
	minimize any impacts to existing FPL properties or	
	infrastructure and to facilitate the implementation	
	of any new infrastructure to deliver power to	
	project facilities.	
FLORIDA WILDIF	FLORIDA WILDIFE FEDERATION (FWF)	
FWF-1	The Central Everglades Planning Project (CEPP) is	Thank you for your comment.
	ss restoration within the	
	Everglades by moving water from Lake	
	Okeechobee into Everglades National Park (ENP).	
	The fast-track process used in developing the	
	Tentative Selected Plan (Alternative 4R2) was	
	transparent, open and FWF members welcomed	
	the opportunity to engage staff members of the	
	Army Corps of Engineers and the South Florida	
	Water Management District in discussing details.	
	The process forced timely decisions. It remains our	
	hope that, notwithstanding the government	
	shutdown that began Oct. 1, 2013, a Chiefs Report	
	can be readied and presented to Congress by Dec.	
	1, 2013, meeting a deadline set in the Senate-	
	passed Water Resources Development Act for	
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	obtaining authorization for CEPP and four pending projects stemming from the Comprehensive Everglades Restoration Plan adopted in 2000. Once	
•	authorized, the CEPP can proceed to the design stage, while construction of precedential projects is implemented.	
FWF-2	We consider the following projects to be	The projects mentioned in the provided comment (i.e. SFWMD Restoration Strategies MAVD 1.Mile Bridge and Road Baising DDI's TINS Bridging and Boad
		Raising, and C-111 South Dade) are identified as CEPP project dependencies in Table
	basins and expanded Stormwater Ireatment facilities laid out in the South Florida Water	b-LU of the Draft PIR/EIS. Removal of approximately 6 miles of Old Tamiami Trail between the ENP Tram Road and the L-67 Extension Levee is identified as a project
	Management District's (SFWMD's) Restoration	feature and can be completed at any time during implementation, but must precede
	strategies rian to meet water-quality standards required by two court orders, state and federal	DACKIIIING OT UTE L-67 EXTERISION.
	law;	For the area south of eastern Tamiami Trail within NESRS, the Draft EIS for ENP Draft
	 Constructing an additional 2.6 mile, Tamiami Trail 	General Management Plan envisions the establishment of a maintenance zone to the
	bridge as identified in the Department of Interior's	south of the roadway. This zone would presumably allow a higher level of
	Next Steps Project to increase the flow of water	management intervention to help promote improved water flow (such as exotics
	Into Evergiades National Park's Northeast Shark River Cloudy (NESRS): and raiding the Tamiami Trail	removal, native vegetation thinning/clearing, and fire management).
	roadbed to 8.5 feet NGVD, which allows water	
	levels to rise in the adjacent L-29 canal;	
	 Removing an old Tamiami Trail road bed and 	
	clearing vegetation that currently impedes the flow	
	of water into Everglades National Park (ENP) that is	
	released through existing culvetis and/or new	
	Completing the C-111 South Dade Project to	
	connect the Frog Pond detention areas (Contract 8)	
	and plugged L-31 W (Contract 9) with the C-111	
	Spreader Canal to restore water flows to Florida	
	Bay via Taylor Slough.	
	Developing operational plans for integrating	
	South Miami-Dade projects before or as they come	
	"on line."	

April 2014

April 2014	C.3-581

CEPP Final PIR and EIS

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
FWF-3	1	The plan implementation section has been edited since the release of the Draft PRKEIS for public review on August 29", 2013. Project features are grouped into three separate PPAs based upon the spatial distribution of the project features and the locations within the CEPP study area where separable hydrologic and environmental benefits would accrue. These groupings include a PPA of project features in northern WCA 3A (PPA North), a PPA of project features in southern WCA 3A, 3B, and ERP (PPA South), and a final PPA which provides the new water and required seepage management features that benefits the entirety of the study area (PPA New Water). The Final PIRKEIS presents two potential implementation sequencing scenarios that are possible with the three separate PPAs currently identified: 1) PPA North → PPA South → PPA Norw Water and 2) PPA South → PPA North → PPA South → PPA Norw Water and non-CEPP project features identified as project dependencies in Table 6-10 of the Draff PIRKEIS still apply.
	Adjustments and the decadily appears may be warranted, and it is readily appearent that operating plans and regulatory schedules will need to be adjusted as new projects come on line. FWF agrees with our colleagues in other environmental o	reusera laws and regulations applicable to implementating the CENT require First to address certain assurances as part of the project recommendation for approval and subsequent implementation. For the CEPP PIR, the analyses for CEPP associated with Section 601(h)(4) and 601 (h)(5) of WRDA 2000 and the Programmatic Regulations for the CERP (33 CFR Part 385) for Project-Specific Assurances and Savings Clause were conducted for the CEPP. Should the project be implemented in multiple PPAs, the USACE District Engineer will ensure that Project-Specific Assurances and Savings Clause requirements are met per PPA, per applicable policies and laws. NEPA Documentation will be updated if applicable as revisions are made to Water Control Plans and/or Project Operating Manuals associated with each PPA. Compliance with the requirements of the Savings Clause will be maintained throughout the entirety of Plan Implementation) of the Final PIR/EIS.
FWF-4	FWF agrees with our colleagues in other environmental organizations that the uncertainties inhel-ent in projects with the scope of the CEPP and the years required to implement can be managed utilizing existing review processes. Uncertainties should be identified and acknowledged but should not become justification for stelling authorization or delaying substantial ecosystem benefits achievable within the next 10	Concur. Thank you for your comment. Language has been added to the Adaptive Management summary (Section 6.1.4) to make clear that the adaptive management options that are to address uncertainties are being requested for authorization as part of the TSP. Several will require additional coordination once more information is available on project footprints and performance, but this falls within existing review processes.

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COMMENTER

FWF-5

Pertinent Correspondence Information

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hydroperiods and distribution, to improve sheetflow patterns and surface water depths and durations, and to restore more natural water level responses to rainfall (for additional detail, reference Section 0.1 of the CEPP PIR). CEPP alternative configurations were developed to reduce the drainage effects from Miami Canal in the northern portions of WCA 3A and restore more sheetflow across the northwest portions of WCA 3A. The current WCA 3A inflow water budget and the drainage characteristics of the Miami Canal cause water levels in northern WCA 3A to recede well below the ground surface for long periods of time, which has resulted in extensive and documented losses of peat soils from oxidation and muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 3 ft in some areas. Alt 4R2 proposes to reverse the continued degradation of this area by backfilling a portion of the Miami canal north of 1-75 to remove its drainage effects, re-distributing inflows through removal of approximately 2.9 miles of the south L4 levee and increasing water flow into WCA 3A during the dry season. Water levels and durations within WCA 3A and 3B will vary across the landscape and from year-to-year if AltAR2 were implemented, consistent with the variability in rainfall, hydrologic conditions, and operations within the upstream basins (Lake Okeechobee, EAA, WCA 1, WCA 2). Generally, water levels in northern WCA-3A will stay above ground surface for longer and the depth and duration of the wer-season water levels will		flow is a modification of that 1948 project and the	The objectives of CEPP to enhance ecological values include: to restore seasonal	5
depths and durations, and to restore more natural water level responses to rainfall (for additional detail, reference Section 01 of the CEPP PIR). CEPP atternative configurations were developed to reduce the drainage effects from Miami Canal in the northern portions of WCA 3A and restore more sheetilow across the northwest portions of WCA 3A. The current WCA 3A inflow water budget and the drainage characteristics of the Miami Canal cause water levels in northern WCA 3A to recede well below the ground surface for long periods of firme, which has resulted in extensive and documented olsses of peat soils from oxidation and muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 3 if in some areas. Alt 4R2 proposes to reverse the continued degradation of this area by backfilling a portion of the Miami canal north of 1-75 to remove its drainage effects, re-distributing inflows through removal of approximately 2.9 miles of the south L-4 levee and increasing water flow into WCA 3A during the dry season. Water levels and durations within WCA 3A and 3B will vary across the landscape and from year-to-year if AltAR2 were implemented, consistent with the variability in rainfall, hydrologic conditions, and operations within the upstream basins (Lake Okeechobee, EAA, WCA 1, WCA 2). Generally, water levels in northern WCA-3A will stay above ground surface for longer and the depth and duration of the wer-season water levels will		Central Everglades Planning Project is a component	hydroperiods and distribution, to improve sheetflow patterns and surface water	8
		of CERP.	depths and durations, and to restore more natural water level responses to rainfall	9
			(for additional detail, reference Section 01 of the CEPP PIR). CEPP alternative	
		Restoration of sheet-flow in WCA-3A is facilitated	configurations were developed to reduce the drainage effects from Miami Canal in	
		by redirecting water discharges from STA 2 into the	the northern portions of WCA 3A and restore more sheetflow across the northwest	
		L-6 and L-5 canals for release into WCA-3A through	portions of WCA 3A. The current WCA 3A inflow water budget and the drainage	
		a series of gated culverts and spillways.	characteristics of the Miami Canal cause water levels in northern WCA 3A to recede	
		Additionally, in the northwest corner ofWCA-3A,	well below the ground surface for long periods of time, which has resulted in	
		sheet flow will be encouraged by the removal of 2.9	extensive and documented losses of peat soils from oxidation and muck fires and	
		miles of the L-4levee. The Miami Canal will be filled	resultant lowering of the ground surface elevations in northern WCA 3A by up to 3 ft	
		from a point 1.5 miles south of the S-8 to	in some areas. Alt 4R2 proposes to reverse the continued degradation of this area by	
		Interstate-175 (Alligator Alley). Changing the flow	backfilling a portion of the Miami canal north of I-75 to remove its drainage effects,	
		of water, inevitably changes habitats and the mix	re-distributing inflows through removal of approximately 2.9 miles of the south L-4	
		of fish, birds and wildlife those habitats support.	levee and increasing water flow into WCA 3A during the dry season. Water levels and	
			durations within WCA 3A and 3B will vary across the landscape and from year-to-year	
		The Florida Wildlife Federation and the Florida Fish	if Alt4R2 were implemented, consistent with the variability in rainfall, hydrologic	
		and Wildlife Conservation Commission (FWC),	conditions, and operations within the upstream basins (Lake Okeechobee, EAA, WCA	
		which manages the conservation areas, are	1, WCA 2). Generally, water levels in northern WCA-3A will stay above ground	
		concerned about current high-water levels and	surface for longer and the depth and duration of the wet-season water levels will	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	projections that extended high water stages will be detrimental.	increase,
		A summary of the anticipated hydrologic effects of the CEPP action alternatives, including WCA 3A, is provided in Table 5.1.2 for CEPP Alternatives 1 through 4 and in Table 5.2.1 for Alternative 4R and the TSP Alternative 4R2. Complete supporting
		documentation for the summary of anticipated hydrologic effects, including stage duration curves for the indicated monitoring gauge locations, is provided in CEPP PIR
		Appendices C.1 (ECB versus FWO); C.2.1 (Alternatives 1 through 4 versus FWO); and C.2.2 (Alternative 4R and Alternative 4R2 versus FWO). For localized hydrologic
		effects at other non-specified WCA locations or daily stage hydrograph information, this information is available for Alternative 4R and Alternative 4R2 as part of the
		complete set of RSM-BN and RSM-GL hydrologic model performance measure output that is posted on the Everglades Plan public web site for the CERP, as indicated in the CEPP PIR main report:
		http://www.evergladesplan.org/pm/projects/proj 51 cepp.aspx
		The water level changes anticipated with implementation of Alt 4R2 are conducive to restoring a portion of the wetland hydrology that was lost as a result of the drainage
		effects from the construction of the Miami Canal through the marsh in northern WCA-3A. Details regarding the expected water level changes can be found in Section
		5 and 6 and Appendix C.2.1 and C.2.2.
		In general, with implementation of Alt 4R2, water levels in Northwest and North
		Central WCA-3A are predicted by the period of record modeling results to remain above ground surface throughout the year to reduce continued soil oxidation and
		invasion of woody vegetation, significantly reduce the susceptibility of that area to
		risk of muck life and beginning to restore the ringe and slough landscape that was evident in the western portion of this area in the 1940s. Water levels in the
		northeastern portion of WCA-3A are predicted by the POR modeling to remain
		conducive to maintaining the sawgrass plains in this area that were also evident in the 1940s Central WCA-3A will remain similar to today's condition, and water levels
		and durations in southern WCA 3A will be slightly reduced due to the increased outlet capacity (to WCA-3B and the expanded S-333) included in Alt 4R2.
FWF-6	The existing conservation areas are impoundments	An analysis of the hydrologic benefits of CEPP indicates that key indicators of
	that lack adequate discharge capacities to prevent	that lack adequate discharge capacities to prevent Everglades restoration will improve significantly with the TSP. It is predicted that
	excessive ponding during wet periods. As shown in	exercise ponding during wet periods. As shown in with implementation of the TSP, that the largest percent gains in daily verage fish during the periods and the periods are shown in the period of the TSP. The shown is the period of the TSP that the largest percent gains in daily verage fish during the period of the TSP that the largest percent gains in daily verage fish during the period of the TSP that the period of the TSP that the period of the TSP that the period of the TSP that the period of the TSP that the period of the TSP that the PSP th
	Table 5.2.1 Environmental Ellects of Art 4K and	density would occur within notifier in was 3A and nears due to renydration. The fish

COMMENTER AGENCY/PUBLIC COMMENT Alt4R2.Hydrology" in the CEPP Draft PIR and EIS, tools used in CEPP showed that in these areas the tentatively selected plan decreases water of 20% with extremes of over 50% however.

stages by one to six inches in WCA-2A and -2B, but increases water levels in WCA-3A. In the northwest section ofWCA-3A water rises six to nine inches, in the northeast section by five to six inches. does not suggest a sufficient "flow-through the tentatively selected plan decreases water Rehydrating northern WCA 3-A is an explicit, desirable goal of CEPP in order to increase the accretion of peat in an area, which has seen As Tables 5.2.7 and 5.2.8 show, increasing water levels significantly reduces the number of fire closures in WCA-3A but the number of high-water recreational closures increases significantly. That system" of water management will be achieved. We believe FWC's recommendations regarding substantial losses as a result of oxidation and fire. water stages and duration should be evaluated and appropriately applied. Driven by seasonal rainfall patterns, the historic Central Everglades thrived on the rise and fall of flowing water. That regime remains vital to restoring and maintaining the mosaic of landscapes typical of Central Everglades habitats. If the rate of recession is slowed and the length of the winter dry-out cut short, critical forage and breeding habitat for birds and wildifie are modified or lost. Prolonged inundation can be just as deadly to wildlife and lacks the velocity to rebuild tree islands or reestablish the characteristic ridge and slough landscape. FWC's specific proposals for water depths and duration should be considered, analyzed and appropriately integrated into CEPP design and operational criteria.

such as wading birds. Therefore, it is predicted that the TSP will also provide a moderate beneficial effect for wading birds. Wood stork species distribution was for the TSP relative to existing conditions and FWO. Wading bird use is predicted to remain stable or decrease for several colonies located in southern WCA 3A adjacent conditions and FWO; however there is potential for these wood stork colonies to tools used in CEPP showed that in these areas, fish densities often increased in excess of 20%, with extremes of over 50%, however decreases in fish density, or negligible changes (3%), were predicted in the area of WCA 3A along the L-67 A canal. An increase in density of small fishes will directly benefit higher trophic level predators modeled by Beerens (2013) and indicates that wood storks would more frequently use areas of northern WCA 3A, WCA 3B, and southern ENP under the TSP compared to the existing conditions and FWO. Wading bird use is predicted to increase for wood stork colonies previously and/or currently located within WCA 3B (3B Mud East), along Tamiami Trail (Tamiami Trail East 1, Tamiami Trail East 2, and Tamiami Trail West), and for several colonies located in ENP (Grossman West, Rookery Branch) to L-28 (Crossover, Jetport, Jetport South, Hidden) for the TSP relative to existing utilize adjacent areas where foraging and habitat suitability are increasing. We agree with FWC that ascension rates should not exceed 0.25 feet per week. Unfortunately, the Everglades is a slow moving system and big rain events can cause rapid and extensive ascension rates. Current operations, CEPP and ECB are not effective in preventing water from accumulating in the Everglades during the wet season. Total number of days when ascension rates exceed this 0.25 ft limit is 487, 543 and 550 for FWO, TSP and ECB, respectively. The CEPP AM plan will examine both operational and physical options to increase flow velocities and sheetflow.

High rainfall, landscape-scale sheetflow and high velocity water were critical elements of Everglades creation. CEPP goals, like DECOMP before it, have been focused on the need to increase flow and prevent ponding. We agree that the capacity of the current Everglades has been compromised. However, CEPP has added features that increases the outlet capacity of the WCA-3 such as the Blue-shanty flowway, significant increased capacity of the 5-333 and the Old Tamiami Trail degrade to Way, significant increased capacity of the 5-333 and the Old Tamiami Trail degrade to

CEPP planning followed the guidelines associated with the science of fish movement, wading bird foraging, snail kite feeding, and the ERTP performance measures that are based on the FWS MSTS. The TSP attempts to optimize recession rates during the

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		dry season between 0.05 ft/wk and 0.08 ft/wk.
FWF-7	To achieve the benefits sought by CEPP, water mustilow through the conservation areas; the outflow capacity planned and designed into CEPP must be sufficient to keep pace with the inflow of water. Until outflow and inflow capacities can be balanced, the FWF suggests additional water be introduced incrementally, the impact on fish, bird and wildlife habitats continuously monitored, and timely adjustments be made as needed to maintain flow and reduce harmful ponding in the southern WCA 3h. We believe such an approach is in keeping with the principles of "adaptive management." Periodically it may be necessary to facilitate partial dry-outs to moist soil conditions with water levels at or slightly below soil levels. Accordingly, the adoption of new regulation schedules and operating protocols should take place before construction is completed.	The AMp plan is designed to prevent unintended degradation of the ecosystem due to scientific uncertainty. The AM plan presents a variety of management options (e.g., short-term pulsing into the Blue-Shanty Flow-way rather than continuous flow) to evaluate and adjust CEPP operations.
PWF-8	Tree islands are a unique and vital Everglades habitat critical to the preservation of terrestrial wildlife. They occur as willow strands, tropical hardwood hammocks and bayheads of swamp forests with mixtures of other brushy species such as pond apple. Alligators build their nests on them. The islands and existing levees provide refugia during high-water period for deer, bobcats, marsh rabbits, raccoons. Gladesmen have vivid memories of the prolonged high-water events of 1957-58, 1966, and 1982 that resulted in massive deer kills. Not all of those high-water events are included in the "period of record" used in CEPP modeling. Nevertheless they attest to the importance of preserving natural tree islands and the construction and planting of "hrew" islands. BMF migrating and resident species of birds. FWF	Thank you for your comment. During the planning process we worked directly with FWC staff to ensure we preserved the highest priority spoil mounds along the Miami Canal while still meeting the need to backfill the Miami Canal and remove barriers to flow (spoil mounds) to restore sheetflow. The creation of tree islands in northern WCA-3A is expected to have the plant and animal diversity that meet the ecological goals of CEPP and the FWC. High water earners are natural, but need not be catastrophic for deer and other terrestrial species. CEPP will work with the FWC on tree island construction and management. CEPP made a concerted effort to not increase EWMA closures. Despite the additional 200,000 acre-ft of new water to the Everglades, the TSP caused EWMA closures twice, in 1994 and 1995. According to the 2-gauge average north of Alligator Alley, the duration of the 1995 event when water depths were over 2 ft for more than 60 days, was 146 days for the TSP, 151 days for the FWO, and 159 days for the ECB and 85 days for the TSP.

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	COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
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Blue Shanty Flow Way and Levee/Berm, new LG7D, will "tain" water south into North East Shark River Slough (NESRS) of Everglades National Park but the size, and configuration of the levee will need to be adjusted to achieve maximum restoration objectives and done so that it benefits restoration objectives with Conservation Area 38 including preservation and enhancement of tree islands and ridge and slough habitats. The proposed 8 miles of the existing LG7-C levee and 4.3 miles of the existing LG7-C levee and 4.3 miles of the L29 (Miami Canal) levee would also be removed to increase water flow into the NESRS. FWF remains committed to feature refinements during the design process to improve ecological connectivity and assure the successful implementation of CEPP. One refinement to the Blue Shanty feature that we think worthy of evaluating during the design stage is to construct a curving berm/levee reflecting actual flow patterns and preserving significant, natural tree islands to the north. Another is to substitute a weir or weirs for one or more of the gates proposed to funnel water from WCA-34 into the Blue Shanty and to ensure the derrimental ponding in southern WCA-3 at is reduced. If gates remain the preferred alternative to release water into the Blue Shanty flow way, FWF proposes they and the S-12 gates be telemetrically automated so they can quickly be adjusted to deal with real-time flows. Currently ACDE personnel drive from Clewiston to open, shut or adjust the S 12 gates. During hurricanes, tropical storms and even' "normal" rather water.		constructed tree islands adjacent to the Miami	
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	FWF-9	Blue Shanty Flow Way and Levee/Berm, new L67 D,	Thank you for the comment. The alignment, design and dimensions of the levee will
		will "train" water south into North East Shark River	be further investigated as the project progresses in to Pre-construction Engineering
size, and congruent of the levee will need to be adjusted to achieve maximum restoration benefits and done so that it benefits restoration objectives with Conservation Area 3B including preservation and enhancement of tree islands and ridge and slough habitas. The proposed 8 miles of the L-29 (Milami Canal) levee would also be removed to increase water flow into the NESRS. FWF remains committed to feature refinements during the design process to improve ecological connectivity and assure the successful implementation of CEP. One refinement to the Blue Shanky feature that we think worthy of evaluating during the design stage is to construct a curving berm/levee reflecting actual flow patterns and preserving significant, natural tree islands to the north. Another is to substitute a weir or weirs for one or more of the gates proposed to funnel water from WCA-34 into the Blue Shanky and to ensure the detrimental per clease water into the Blue Shanky flow way. FWF proposes they and the S-12 gates be telemetrically automated so they can quickly be adjusted to deal with real-time flows. Currently ACOE personnel drive from Cleasts out in Cleasts out and the S-12 gates. During hurricanes, tropical storms and even "mormal" raily seasons, this is is incefficiant and precludes curiled active and precludes curiled active and precludes purity and proceeding storing and even "mormal" raily seasons, this is is incefficiant and precludes curiled active and precludes curiled active and precludes curiled active and precludes are precluded active and precludes are precluded and precludes united arithment when waters is incefficiant and preclude active and we may find the surfice active and we mormal arialy seasons, this is isometimed.		Slough (NESRS) of Everglades National Park but the	and Design (PED).
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with Conservation Area 38 including preservation and enhancement of tree islands and ridge and slough habitats. The proposed 8 miles of the L-29 (Marmi Canal) levee and 4.3 miles of the L-29 (Marmi Canal) levee would also be removed to increase water flow into the NESRS. FWF remains committed to feature refinements during the design process to improve ecological connectivity and assure the successful implementation of CEPP. One refinement to the Blue Shanty feature that we think worthy of evaluating during the design stage is to construct a curving berm/levee reflecting actual flow patterns and preserving significant, natural tree islands to the north. Another is to substitute a weir or weirs for one more of the gates proposed to funnel water from WCA-3A into the Blue Shanty and to ensure the detrimental ponding in southern WCA-3A is is reduced. If gates remain the preferred alternative to release water into the Blue Shanty flow way, FWF proposes they and the 5-12 gates be telementically automated so they can quickly be adjusted to deal with real-time flows. Currently ACOE personnel drive from Clewins for without the subscript significant and need informally rainty assoons, trois is inefficient and need informally rainty water inefficient and need informally rainty and water inefficient and need informally rainty water.		and done so that it benefits restoration objectives	
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	levels in WCA-3A rise suddenly.	
FWF-10	Debate contínues among environmental	Thank you for your comment and attention to the L-67 D feature. WRDA 2000
	organizations, ACOE, and various natural resource	requires (Savings Clause) that CERP does not reduce the level of service for flood
	agencies over the size, exact location, etc. of the	protection as of 2000 and in accordance with applicable law The function and
	proposed Blue Shanty levee/berm (L67-D).	integrity of the C&SF flood protection system provided by the L-67 A and L-67 C levee
	Environmental organizations argue that were the	system must be maintained following CEPP implementation, and CEPP degradation of
	structure breached and water released, it would	portions of the L-67 C and L-29 levees must be offset with additional infrastructure
	flow into the main body ofWCA3-B posing no	and operational constraints that maintain the pre-project level of flood protection
	danger to urban or other developed areas to the	and account for any potential increased design risk. The details of additional
	east, A discussion in Appendix A-Annex A at 3.2.2 -	infrastructure, and how it would interface with operations and existing infrastructure,
	WCA-3B Design Considerations, appears to	will be determined in the future as adaptive management, Pre-Construction
	discount the risk of a breach and overtopping of	Engineering and Design (PED), and as other information becomes available for this
	the L-29 (Miami Canal) levee even with higher-	area. Consideration of a new L-67 D levee (currently included as a component of the
	water levels in WCA 3-B. Controlled gates moving	CEPP recommended plan), including its footprint (width/height), costs, and
	water from WCA 3A, the Blue Shanty flow-way and	permanency, will be cautiously considered and subject to applicable policies and
	the main body of WCA 3B are also cited as	permitting.
	providing a measure of safety. Were a weir or	
	weirs to be substituted for controlled gates,	
	another assessment would be required. The FWF	
	suggests that the sizing of the levee/berm be	
	determined during the design stage when the L-	
	67D levee/berm may be seen as serving multiple	
	functions and the risk of failure is weighed against	
	the potential damage. We believe any damage	
	would be minimal.	
FWF-11	Endangered Species and Affected Resources:	Thank you for your comment. The Final PIR/EIS will include the preliminary Biological
	Despite deteriorating conditions in the water	Opinion. During construction all contractors will be required to minimize adverse
	conservation areas during the last 40 years, the	impacts in accordance with the FDEP CERPRA Permit and follow applicable species
	mosaic of habitats -sloughs, ponds, ridge and	guidelines and conservation measures, developed and published by the U.S. Fish and
	slough, upland tree islands, wet prairies, canals and	Wildlife Service (FWS).
	leveescontinues to support significant wading	
	bird colonies, fish populations, migratory birds,	
	terrestrial and semi-terrestrial wildlife and their	
	prey. Some 24 federally listed endangered,	
	threatened and candidate species exist within the	
	CEPP project area and potentially could be	
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	The Florida panther and indigo snake will be impacted by the modifications or loss of habitat as it transitions from upland to wetland habitats occur. For the Everglades snail kite, which eats only apple snails, more shallow water wetland suggests greater foraging opportunities. The Eastern indigo snake inhabits EAA agricultural fields, and despite the eventual construction of two flow-equalization basins, there will be a large area of agricultural fields and native uplands to sustain that population.	
	During construction of CEPP projects, FWF supports ACOE recommendations in the CEPP Biological Assessment (Annex A, Sections 7 an 8) to require contractors to minimize adverse impacts by following applicable species guidelines and conservation measures, developed and published by the U.S. Fish and Wildlife Service (FWS).	
FWF-12	The Cape Sable Seaside Sparrow (CSSS) is the most likely species to be adversely affected by implementation of CEPP. The bird relies exclusively on short-hydroperiod freshwater marl prairies east and west of ENP's Shark River Slough and along the eastern edge of Taylor Slough, in the southeastern ENP. It feeds on soft-bodied insects from low lying vegetation and avoids open-water sites. Changes in water flows are deemed to have contributed to its precipitous decline. In evaluating CEPP impacts on the six resident-subpopulations of the sparrow, the ACCE is using a performance measure that calls for a nesting window of 60 consecutive dry days (ground water below 6 feet NGVD) beginning March 15 and two "ecological targets." The first, for CSSS subpopulations on the west edge of the Shark River Slough, drops water levels to less than	The Final PIR/EIs includes the preliminary Biological Opinion (Annex A) that outlines the terms and conditions required to potentially offset adverse effects. FWS and the Corps has used the Multi-Species Transition Strategy in the formulation of CEPP.

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CEPP Final PIR and EIS

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	7 feet NGVD by December 3.1 to ensure nesting- season water levels reach 6 feet NVD by mid- March. That's a level below ground. The second establishes a three-to-seven month hydroperiod in sparrow. habitats to maintain marl-prainie vegetation. Tested against 40 year period of record, the nesting windows were met only for two subpopulations and the dry-season targets were met only in 20 to 25 of those years. (Appendix C.2.1, figures C.2.1-19 and C.2.1-20) The tentative selected plan, Alternate 4R2 was not among the four alternatives tested. The ACOE has sought a "Section 7 consultation" with U.S. Fish and Wildlife Service.	
	The FWF supports the ACDE's proposals to monitor sparrow nesting and foreging habits intensely to identify what correlations exist to changes in the water regime and to explore mitigation measures potentially offsetting adverse effects. (Annex A, CEP Biological Assessment, Section 7).	
	The hydrologic changes called for in TSP 4R2 have been designed to improve conditions and forging opportunities for wading birds in the conservation areas and Everglades National Park. It should not become necessary to sacrifice substantial benefits for wading birds, some of which are threatened or endangered, in order to protect another endangered species. Incorporation of multi species recovery objectives into CEPP and other CERP project's implementation through the USFWS consultation process is needed.	
FWF-13	Recreational Opportunities: South Floridians who camp fish, boat/airboat, hunt in the conservation areas, often refer to them as "Florida's Everglades" or by the name used by the	Thank you for your support. The CEPP Recreational Plan maintains and improves existing access and provides additional access points for recreational and fishing opportunities. Please refer to Appendix F, Site F and Site G that identify existing, improved and new access points for recreational opportunities that include fishing.
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Florida Fish and Wildlife Conservation Commission (FWC): the Everglades and Francis S. Taylor Wildlife Management Area. FWC has managed WCA-2A, 2B, -3A and -3B since 1952. Adjacent to the urban southeast coast, those areas and lands owned by the SFWMD and state of Florida bordering Everglades National Park are readily accessible and heavily used and enjoyed by the public for fishing, hunting, frogging, nature observation and a variety of other forms of outdoor recreation.	
	The Florida Wildlife Federation thanks the CEPP Project Delivery Team for its concerted eff01i to maintain access and enhance recreational opportunities. The added parking, boat ramps, fishing platforms, shelters and toilets -all compliant with the Americans with Disabilities Actplanned are welcome.	
	The L-67 Everglades canals separating WCA 3-A and WCA 3-B consistently record the state's highest catch-rates for largemouth bass. FWF and other recreational organizations active in the region are eager to expand that renownedjistely into the L-29 (Miami Canal) and WCA-3B and offset fishing opportunities that will be lost by the filling parts of the Miami Canal. Fishing access from Broward County's Holiday Park into WCA 3-B also ought to be provided. Construction of the Broward Water Preserves, currently awaiting congressional authorization, will dramatically improve the quality of water discharged from Broward into the	
FWF-14	conservation areas. Current recreational activities in the conservation areas and storm-water treatment areas include fishing, air-boating, boating, hunting, bird-watching, nature photography, cycling, hiking and	Thank you for your support. The bridge (aka the Buggy Bridge) at \$339 is an existing structure that is anticipated to require structural maintenance activities or be decommissioned in advance of CEPPs 2029 implementation schedule and therefore is not included as a recreational component in the Central Everglades Planning Project.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	star gazing. CEPP focuses on water flows and improving the ecological connectivity of the Everglades systems that sustain such outdoor recreation, so it's worth noting that recreation is now a major driver of South Florida's tourist economy. According to FWC studies, the Everglades Wildlife Management Area alone generates \$31 million annually in spending and support some 700 local jobs. The continued use and enjoyment of the Central Everglades area for sustainable outdoor recreation including fishing and hunting is important to Florida Wildlife Federation and allied spoiling conservationist's	Appendix F - Recreation Site E includes an earthen crossing at this site to ensure the continued connection of existing buggy trails across the Miami Canal.
	The rehydration ofWCA-3A will help maintain tree islands and rebuild the characteristic ridge-and-sistands and rebuild the characteristic ridge-and-sidentified as a key attribute of a healthy Everglades landscape but half of those existing pre-drainage have since been destroyed by erratic water management allowing oxidation of the soil killing roots and leaving the trees vulnerable to toppling. Dry-season fires have also diminished the islands. Commendably the TSP preserves Z2 of the FWC's constructed and planted tree islands along the Miami Canal in northern WCA-3A, efforts are underway to identify significant natural tree islands for preservation as well.	
	closures in the conservation area, albeit the number of high-water closures increases, adversely affecting deer and other wildlife that require dry ground during their life cycle. Deer are indigenous to the mosaic of Everglades habitats. Alligators, turtles and snakes require dry nesting sites. Wading birds and other tree or shrub nesting birds.	
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COMMENTER	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
	rely on tree or shrub dominated islands. To do well as the Everglades is restored, mammals and reptiles require refugia that is protected from flooding during high-water events. Wading birds require shallow water foraging habitat. We support programs to construct and plant additional tree islands and perimeter levees to provide habitat to benefit wildlife that require "Everglades uplands" in their lifecycles. FWF also supports retaining the buggy bridge at 5339 over the Miami Canal, unless the fill to be put into the canal is sufficiently compacted to sustain the weight of crossing vehicles. This will allow continued traditional recreational access important to clands. Furners and angles.	
FWF-15	Estuaries, Florida Bay and Biscayne Bay: Restoration of the northern estuaries will be aided by the diversion of 210,000 acre feet of water from Lake Okeachobee as provided in the TSP and construction of the long-delayed C-43 (Galoosahatchee Reservoir, which awaits compressional authoritation) and by completion of the C-44 (St. Luick/South Indian River Lagoon watershed projects. Alt. 4R2, plus increased waterstorage in the Kissimmee River Valley, reduces the risk of damaging wet-season releases to the Caloosahatchee by 14 percent and St. Luick/Indian River Lagoon by 34 percent, (CEPD Draft PIR and Etj. Table 5.2.1). These projects are beneficial but to fully address the question of large discharges of nurrient rich fresh waters into the northern estuaries from the Lake Okee-chobee basin requires Storage and treatment areas. Dra additional future storagle yath amaging intrinsion of sait water inestream	Alt 4R2 addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. The implementing agencies are committed to engaging in a public process after Congressional authorization and appropriations of CEPP to integrate in which CERP projects would be planned, designed, and constructed.

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	These projects do alleviate some of the damages to those estuaries, Important elements of restoration of the northern estuaries depends on constructing the long-delayed C-43 (Caloosahatchee Reservoir, which awaits congressional authorization) and completing the C-44 (St. Lucie/ South Indian River Lagoon) watershed projects).	
PWF-16	CLEPPs features restoning ecological connectivity among WCA-3A, WCA-3B, Evergades National Park and Biscayne National Park ought to improve estuarine conditions and fisheries habitat in Biscayne Bay and Florida Bay. This should benefit salt-water fishing opportunities in the Everglades National Park and the Florida Reys. However the combined discharges to Central and Southern Biscayne Bay, while increasing by 15 percent are described as a "minor to moderate adverse effect" in the Draft PIR and EIS (Table 5.2.1). Average annual canal discharges to northern Biscayne Bay are reduced by Il percent, and in Florida Bay there is only a "moderate improvement" of 9 percent. It is unclear why and should be further explained when the proposition of the pr	Table 5.2-1 of the Draff PIK/EIS provides a combined analysis for all of Biscayne Bay, including the northern, central, and southern areas (see Southern Estuaries Geographic Region). Alf 4R2 has been updated to explicitly state that combined net inflows to Biscayne Bay are reduced by an average annual volume of 29 kAF relative to the FWO (summation of the numbers stated in the table), which provides the basis for the "minor to moderate adverse effect" assessment. Alt 4R2 provides an increased combined net inflow to Biscayne Bay of an average annual volume of 26 kAF relative to the IORIB1.
FWF-17	While remaining attentive to flood protection in Miami-Dade County, equal attention must also be paid to sustaining freshwater flows to Biscayne Bay, the linkage between the CEPP and the Biscayne Bay coastal Wetlands Project, and the vitality of Biscayne National Park, any one of which would be severely damaged by a decrease in the	Alt 4R2 provides additional flows to central and southern Biscayne Bay relative to the FWO and IORBL1. Combined total average annual canal discharges to central and southern Biscayne Bay (S-336, S-194, S-196, S-197) are increased by J7kAF and 15 kAF relative to the FWO and IORBL1, respectively. Average annual surface water canal discharges to northern Biscayne Bay (S-29, S-28, S-27) are reduced by 46kAF and 4kAF for Alt 4R2 compared to the FWO and IORBL1, respectively.

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	.flow of freshwater. Southern Biscayne Bay remains	Additional flows to central and southern Biscayne Bay are likely to provide a minor
	a productive fishery, supporting commercial and	beneficial effect to the mangrove communities and fish and wildlife resources by
	sports fishing. Organisms of the near-shore	lowering salinity levels and/or reducing the number of days salinities exceed 40 psu.
	nursery, which include pink shrimp, require salinity	Decreases in canal discharges with Alt 4R2 are most notable in north Biscayne Bay
	ranges between 20-35 ppt to thrive. A decline of	relative to the FWO. Northern Biscayne Bay is an urban dominated area and
	those organisms (the food web) would be a	experiences strong ocean flushing, reducing the risk of hypersaline conditions from
	severely negative ecological impact with far	the lack of freshwater flow
	ranging effects on grass beds, shell fish, fish and	
	higher order species, possibly including manatees	Guidance has been provided in the Adaptive Management Plan (Section 1.4.4.2 of
	and American crocodiles as well as compromise	Annex D) to specifically address potential changes to freshwater flow brought about
	popular salt water fishing areas.	by the project and potential negative impacts to Biscayne Bay.
FWF-18	The SFWMD has established water reservations to	Savings clause analyses described in Section 601(h)(5) of WRDA 2000, is a means to
	protect the flow of canal water required by the	protect users of legal sources of water supply and flood protection that were in place
	Biscayne Bay Coastal Wetlands Project. The district	at the time of enactment. Section 385.36 of the Programmatic Regulations require
	this year also updated the Water Supply Plan for	PIRs to determine if existing legal sources of water are to be eliminated or transferred
	the region's public water utilities. The latter	as a result of project implementation. Sources of water to meet agricultural and
	identifies usage, flow and facility needs.	urban demand in the LOSA and LECSAs, including Biscayne Bay, will continue to be
	Implementation of CEPP and regional CERP	met by their current sources. Implementation of the project will also not reduce the
	projects are expected to enhance and protect the	levels of service for flood protection within the areas affected by the project. See
	urban and agricultural water supply.	Section 6.8 (Project Assurances Summary) and Annex B (Analyses Required by
		WRDA 2000 &State Law).
FWF-19	Urban and Agricultural Water Supply Benefits	The following text was added to CEPP PIR Section 6 TSP description for the
	Restoring the flow of water to the Central	'yellowline' area to further highlight remaining uncertainties and need for more
	Everglades is wholly consistent with the CERP goals	information before implementing a seepage barrier in CEPP: "There are remaining
	and proposed CERP projects. The geology	uncertainties about the effectiveness of the CEPP TSP seepage cutoff wall in
	underlying southern Miami-Dade is extremely	maintaining desired stages in marshes of ENP while maintaining water supply, flood
	porous and ground water flows are large enough to	protection and water availability to Biscayne Bay. Therefore, additional analysis of
	be deemed sufficient to protect Biscayne National	the CEPP seepage cutoff wall will be conducted during the PED phase. See Section
	Park, Biscayne Bay, and irrigate South Dade	6.10.1.2, the Engineering Appendix (Appendix A), the analyses required by WRDA
	farmland. That does not allay the fear of users that	2000 (Annex B), and the CEPP Adaptive Management Plan (Annex D Part 1) for more
	supplies are inadequate and deliveries ill-timed.	detail about the remaining uncertainties and suggested analysis to be completed to
		determine the need for and extent of a CEPP seepage cutoff barrier wall,"
	As water moves south along the eastern border of	
	ENP seepage controls must be in place to prevent	ENP seepage controls must be in place to prevent To address the commenter's concerns the following text was added to the
	.flooding of farmlands and suburbs of Miami-Dade	introduction to the LEC section of the CEPP adaptive management plan: "There are
	County, Because of the porous rock underlying	
and the second s	those areas and the rapid flow of ground water, it	in maintaining desired stages in marshes of ENP while maintaining water supply,

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	is important to recognize that "flooding" in this region, more often refers to rising ground water than to an above-ground overflow. The "South	flood protection and water availability to Biscayne Bay. Therefore, additional analysis of the CEPP seepage cutoff wall will be conducted during the PED phase.
	Mami-Joade Conveyance" system must operate efficiently to keep water in ENP and direct it through Taylor Slough into Florida Bay.	Completion of the C-111 South Dade project, including Contract 8 to connect to the MWD 8.5 SMA project, is identified as CEPP project dependency in Section 6.7 (Plan Implementation) of the PIR/EIS.
	FWF supports increasing the capacity of the S-356 pump station and installation of a seepage cut-off wall south of the Tamiami Trail. Seepage barriers have been used successfully for many years in southern Florida. FWF has followed the testing of the current pilot project. Although the first attempt to install a shallow wall failed the latest wall is	
	larger, deeper and employs a different slurry mix. Initial findings are good, and final results will be reported in December. The depth of a seepage wall is an important variable in determining its impact	
	in surface and glouin water flow. Ample time exists to redesign or install a sheet-metal wall. It is a misconception that seepage barriers cut off all water flows; the walls serve specific, limited purposes.	
	In commenting on the need to complete the precedential projects, we also called attention to the necessity of connecting Frog Pond detention areas of the Modified Waters Delivery project to the current C-111 spreader canal.	
FWF-20	Conclusion: CEPP planning, including public participation, modeling to assess proposed features, and publication of the draft PIR has been a tremendous undertaking. Implementation of the plan and projects will be no less daunting. The tentative selected plan (Alt AR.2) represents a consensus of	Thank you for your comment.
	what should and can be done as well as today's	
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	sense of what's achievable, At \$1.7 48 billion the cost provokes sticker shock, but can be amortized over 30 or more years that implementation will ake. The cost will be shared between the state and federal governments. It is consistent with other projects of similar scope. The value of the CEPP is that it provides direction for the next generation along with explanations of what decisions were made and why.	
	There is general agreement that projects must be prioritized, there is less agreement about which to prioritize, other than recognition of the fact that CEPP successful implementation rests on the completion of precedential projects and the requirement to achieve a basic water-quality standard that has not changed in 25 years.	
	The CEPP Draft PIR addresses and successfully balances many interests and hews to both the goals and performance measures outlined in CERP. The Florida Wildlife Federation believes steady progress has been made toward restoration, embraces and supports CEPP's focus on the importance of moving water through the Central Everglades. The Federation will continue its efforts to expedite Everglades Restoration knowing that its costs are not beyond America's means and can be managed long term.	
MARTIN COUNTY	MARTIN COUNTY CHAPTER OF THE FLORIDA NATIVE PLANT SOCIETY (MCENTS)	The state of the s
MCFNP3-1	rins is the next step needs to compinient the CERP-Indian River Lagoon-South plan that was authorized previously. As this summer's rains and the resulting blue green algae made clear, the river and lagoon need help ASAP. The pace of spending and construction needs to match the speed of the planning model you have set before us. It pains us	mank you to your comment. Star will work as expentitously as possible to complete the Chief of Engineer's Report for submittal to the Assistant Secretary of the Army for Chiwork and Office of Management and Budget (OMB) for administrative review. This will occur upon completion of the State and agency review of the Final Central Everglades Planning Project (CEPP) Final Integrated Project Implementation Report (PIR) and Environmental Impact Statement (EIS).
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	to see that the CEPP building process might take TEN (10) years! The plan needs to be implemented faster. That is our main complaint.	
MCFNPS-2	We hope the potential for a flowway directly out of Lake Okeechobee will be next on your planning plate.	Alt 4R2 redirects an average of approximately 210,000 acre-feet per year of clean freshwater into the central portion of the Everglades that would otherwise be undesirably discharged to the Northern Estuaries. The concept of a "flowway" or broad shallow marsh area that is used to flow water freely from Lake Okeechobee to one or more of the WAGA was screened from further consideration as part of the CRRP. Further information on the evaluation of this concept can be found in the C&SF Comprehensive Review Study (USACE 1999).
CRYSTALS-1 CRYSTALS-2	CRYSTALS-1 I am writing to provide comments of Florida Crystals and its affiliates, including Okeelanta Corporation and New Hope Sugar Company, on the Draft Integrated Project Implementation Report and Environmental Impact Statement ("Draft PligEIs") for the Central Everglades Planning Project ("CEPP"). This is our fifth comment letter on the CEPP, and to save space, we hereby incorporate and reiterate our previous comments dated January 20, 2012, March 30, 2012, October 16, 2012, and January 4, 2013. CRYSTALS-2 Florida Crystals remains committed to Everglades restoration. For two decades, Florida Crystals and other farmers in the Everglades Agricultural Area ("EAA") have worked to reduce phosphorus in farm	Thank you for your comments. All letters have been entered into the Administrative Record. Thank you for your comment.
CRVSTALS-3	runoff by implementing on-farm Best Management rearctices, contributing hundreds of millions of dollars toward the construction and operation of stormwater Treatment Areas ("STA\$") by the South Florida Water Management District ("SFWMD"), and cooperating in land swaps with the SFWMD to facilitate restoration projects. While we support the Corps' efforts to formulate long-term restoration plans such as the CEPP, there are important projects which the Corps can and should implement now. In particular, the Corps	The Corps is re-initiating pursuit of operational testing (relaxation of G-327 gage operational constraint and S-356 test) to utilize the constructed Modified Delivery Project features. Planning for the G-3273/S-356 field test has started but is not complete and necessary approvals (including FDEP) have not been attained.

CEPP Final PIR and EIS

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	should implement the Modified Water Deliveries Project by increasing water deliveries to Northeast Shark River Slough using newly-built water management features; speed efforts to rehabilitate the Herbert Hoover Dike around Lake Okeechobee to allow for more water storage in the lake, and implement projects designed to address the needs of the Northern Estuaries, specifically, the Indian River Lagoon and C-43 Reservoir Projects. The formulation of long-term plans such as the CEPP should not distract the Corps from completing projects already underway or approved by the Chief of Engineers.	Information from the test will be used to develop the Final Water Control Plan for the MWD project which will allow for re-distribution of existing water flow from Western Shark River Slough. The Corps anticipates an operational plan and completion of MWD prior CEPP implementation. To date, the Jacksonville District has received between 20 to 25% of the National Dam Safety Construction budget for the Corps for rehabilitation of HHD and has been steadily working on HHD rehabilitation. The Corps has completed over 22 miles of cut-off wall and currently have 16 of the 32 culverts under contract for replacement or removal. The Dam Safety Modification Report is scheduled for complete rehabilitation the HHD. The USACE and the SFWMD will undertake integration of the CEPP recommended plan and the other CERP projects a waiting authorization into the CERP programs' integrated Delivery Schedule (105), which contains the Master Implementation Sequencing Plan (MISP), through a robust public process.
CRYSTALS-4	Florida Crystals supports the concept behind the CEPP, which is to send excess, unneeded water from Lake Okeechobee south to the Water Conservation Areas ("WCAx") and Everglades National Park. It should be possible to do this without adversely affecting existing legal water users and by using land already owned by the government in the EAA. The Draft PIR/EIS makes clear that the CEPP remains a work-in-progress. There remain several critical substantive issues that the Corps and SFWMD must resolve before the CEPP is finalized. Those issues include:	The CEPP plan does not adversely affect existing legal water users as documented in Annex B of the PIR. The CEPP plan does not eliminate or transfer existing legal sources of water without identifying new sources consistent with WRDA 2000.
CRYSTALS-5	Water Quality: Based on information contained in the annual South Florida Environmental Reports published by the SFWMD and other Corps reports. EAA farmers and the SFWMD already have achieved 97% of the phosphorus concentration cleanup targets for EAA.	The SFWMD is required to obtain approval from FDEP for reasonable certainty that all project components are consistent with applicable law and regulations, and can be permitted and operated as proposed," § 373.1501(5)(c), F.S. A 1501 Compliance report is included in Annex B of the Final Project Implementation Report. The State and Federal parties are presently working to resolve issues associated with

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	runoff to the Central Everglades (WCA-2 and WCA-3 h) from approximately 184 ppb twenty years ago to approximately 184 ppb twenty years ago to approximately 184 ppb today. The State of Florida and EAA farmers are implementing a plan to achieve the final 3% of the deanup goal. Wearcheless, the phosphorus concentration targets are set so low that the current CEPP proposal to send new Lake Okeechobee water to the WCA's will be severely constrained. In particular, it is certain that the additional flow into Everglades National Park will trigger a violation of the criteria contained in Appendix A to the Consent Decree in US v. SFWMD, Case No. 88-1886 (S.D. Fla.). This will prevent the delivery of additional water to the Central Everglades, and will limit the State's ability to approve the CEPP under Florida law. The Draft PIR/EIS does not resolve this problem related to Appendix A, but instead only identifies a process to discuss it. The Corps and SFWMD need to resolve this issue before finalizing the plan so that the CEPP can be approved and court action by third parties.	Appendix A compliance. The USACE does not agree that the Appendix A timeline should affect the CEPP authorization timeline.
CRYSTALS-6	Water Supply: Esting legal users around Lake Okeechobee have far less water supply than they had when the Water Resources Development Act of 2000 ("WRDA 2000") was signed into law. The CEPP apparently will lock-in that reduction in water supply for the foreseeable future in volation of the WRDA 2000 Savings Clause. Even applying the Corps' approach to water supply accounting, the Diraft Pilk/Els indicates that the current CEPP plan will not be able to replace water supply reserved for the existing legal users in the Lake Okeechobee Service Area that is being transferred due to water quality issues in the lake that likely will prevent the	Consistent with the WRDA 2000 and the Programmatic Regulations, the savings clause analysis identifies the effects of the plan, not non-CERP actions (including, for example, LORS). The CEPP future without project assumes continued operation of Lake Okeechobee under the 2008 Lake Okeechobee Regulation Schedule, as described in Section 2 of the PIR. The CEPP savings clause analysis for the LOSA, presented in Annex B Section B. 3.1.1, concludes that Alternative 4R2 meets the requirements of the Savings clause. The volume of demand not met for the LOSA during the eight years with the largest water shortage cutbacks in the period of simulation is the same or slightly improved when comparing the with-project condition, Alt 4R2, and the without project condition, DIRBL. In six of these years, the volume of demand not met is reduced (i.e. improved water supply performance) by approximately one to seven percent. In the two remaining years where the volume of demand not met increases compared

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	inter-basin transfer of runoff from the C-23 canal. The Corps and SFWMD need to address this issue before finalizing CEPP to avoid a violation of the Savings Clause.	to the without project condition (1981 and 1982), the increase is one percent or less. Over the entire period of simulation, the average annual volume of demand not met during water shortages declines by 6 kAF [1%] in the with-project condition compared to the without-project condition (Alt 4R2 and IORBLI average 29 kAF and 35 kAF of cutbacks for EAA and Other LOSA combined, respectively).
		Table 6-10 in Section 6.7 (Plan Implementation) documents a number of project dependencies including but not limited to the C-44 Reservoir (IRL-5 Project) and connection to the C-23 Canal.
		Savings clause evaluations and the Draft Project Operating Manual have only been provided for the entire project. To address any future uncertainties related to incremental implementation, it is recognized that prior to implementation of each phase, additional detailed analyses pertaining to that phase of implementation will be considered in development of the Project Operating Manual. These analyses will include demonstration that Savings Clause and Project Assurances requirements for the project phase will be met prior to PPA execution. This is discussed in Section 6.7.1.7.
		The FDEP is in the process of developing a Basin Management Action Plan (BMAP) for Lake Okeechobee pursuant to Section 403.067, Florida Statutes. This BMAP will be an iterative effort to address water quality issues in Lake Okeechobee. Potential water quality issues associated with 5-308 loads will be addressed as part of the BMAP.
CRYSTALS-7	Lake Okeechobee Regulation Schedule: A critical element to improving performance of the central and Southern Florida Project ("CRSF Project") is modifying the Lake Okeechobee Regulation Schedule. The Draft PIR/EIs admits that the regulation schedule must be revised to implement the CEPP, but it fails to develop those revisions. The Corps needs to provide more information on the necessary revisions to the Lake Okeechobee Regulation Schedule before approving and implementing the CEPP.	The discussion of the Lake Okeechobee Regulation schedule and its relation to the CEPP plan is described in Sections 6.1.1 and 6.1.3.2. Information and documentation of the CEPP TSP modeling assumptions for Lake Okeechobee operations are found in Appendix A (Engineering) of the CEPP PIR.
CRYSTALS-8	Modified Water Deliveries Project:	The Corps is re-initiating pursuit operational testing (relaxation of G-3273 and S-356

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	In WRDA 2000, Congress prohibited any	test) to utilize the constructed Modified Delivery Project features. Planning for the
	appropriations for the decompartmentalization of	G-3273/S-356 field test has started but is not complete and necessary approvals
	the WCAs until the Modified Water Deliveries	(including FDEP) have not been attained. Information from the test will be used to
	Project is completed. The agencies are close to	develop the Final Water Control Plan for the MWD project which will allow for re-
	finishing construction on Tamiami Trail	distribution of existing water flow from Western Shark River Slough to Northeastern
	improvements, but the Draft PIR/EIS indicates that	Shark River Slough. The Corps anticipates an operational plan and completion of
	they have no plans to complete the project by	MWD prior to CEPP implementation.
	implementing an operational plan to deliver	
	Significant new flows into Northeast Shark Slough.	lable b-11 Project Dependencies has been updated to reflect that the NWWD project
	fully implemented, and soon, irrespective of CEPP.	will be complete and operational prior to implementation of appropriate cerr features.
	Nevertheless, since the Modified Water Deliveries	
	Project will not be completed before the proposed	
	initiation of the CEPP, there will be no federal	
	appropriations for the CEPP features in WCA-3. The	
	Corps needs to commit to completing the Modified	
	Water Deliveries Project in the near future -in	
	other words, put the newly-constructed features	
	into operation to modify the deliveries of water	
	into Everglades National Park -or the CEPP cannot	
	be implemented.	
CRYSTALS-9	Flood Protection:	The level of detail, associated risks and cost details have been affirmed as sufficient
	The proposed A-2 Flow Equalization Basin risks	for the CEPP expedited effort. The next phase of the Corps Civil Works process, PED,
	worsening flood protection for adjacent areas in	will involve refinement of design, risks and costs based on the detailed site specific
	the EAA. The Corps needs to produce a final design	data yet to be acquired.
	for the FEB in the final PIR/EIS to demonstrate how	
	the project will avoid violating the WRDA 2000	A more detailed flood routing using the seepage collection system (including the A-1
	Savings Clause as it relates to flood protection for	and A-2 seepage canals) will be conducted during PED to ensure there will be no
	the adjacent farmland. These substantive problems	additional adverse impacts to adjacent agricultural lands. During PED, the seepage
		system will be refined to ensure sufficient capacity to capture any additional
		discharges. It is anticipated that if necessary, water will be routed through the 5-8
		pump station for discharge into the Miami Canal, as it currently serves as a flood
		control structure today. The PED phase will be conducted following completion of the
OF STATES	The second secon	Final Pik and, most likely, following Congressional authorization of CEPP.
CAISIALS-10	these substantive problems with the current cerry	these substances to the flavorence with the current cert of a human to the certain the certain the control morphologram. The certain the c
	the plan was developed. In the agencies' rush to	the plan was developed. In the agencies' rush to modeline tools. Utilization of the improved hydrologic models in the plan

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	develop a plan, they have cut too many corners on	formulation effort allowed for a robust, sequential analytical screening process to
	critically important issues. For example:	develop alternative plans. The plan formulation effort capitalized on data and
		findings developed in previous planning efforts for CERP and other restoration
		initiatives. The sequential analytical process became increasingly more
		comprehensive and detailed as plan formulation progressed. CEPP alternative
		development began with an initial screening to identify feasible management
		measures (structural and non-structural or activities that address one or more
		planning objective). Retained measures underwent rigorous screening, analysis to
		evaluate, optimize, refine and group into components and options. The improved
		tools utilized in CEPP allowed for consideration of a wide-range and full array of
		options, components and alternatives in development of the proposed plan.
CRYSTALS-11	 The Corps has not acknowledged that it is making 	The Corps has not made major changes to the Comprehensive Everglades Restoration
	major changes to the Comprehensive Everglades	(CERP) Plan and has not abandoned CERP projects in the EAA. Section 6.9.8 "CERP
	Restoration Plan. The proposed CEPP plan	Comparison to CEPP" has been added to the PIR and includes comparison of the CEPP
	abandons projects in the EAA identified in the 1999	plan to the relevant CERP Project components as presented in the Final Integrated
	Approved CERP Plan and abandons some of the	Feasibility Report and Programmatic Environmental Impact Statement dated April 1,
	goals of improving water supply for human users.	1999 along with cost and scope changes. Implementation of CEPP would not
	Even if the Corps believes that such changes are	preclude implementation of other components of the 1999 Plan that was intended to
	appropriate, it should reveal and discuss those	serve as a framework.
	changes and engage all stakeholders in that	
	decision. Instead, it is rushing through a Project	
	Implementation Report which purports to just	
	implement the 1999 Approved Plan when in fact it	
	is changing that plan in important ways.	
CRYSTALS-12	 The Corps has not considered any alternatives 	A full array of reasonable alternatives was considered. The planning effort considered
	north of the WCAs. NEPA requires agencies to	a multitude of options and combination of options north of the WCAs that included
	consider a range of alternatives to highlight the	shallow reservoirs (4-ft), deep reservoirs (6-12 ft deep), STA's, flow-through marsh
	choices being made. We proposed several	systems, and every combination thereof. A full description of the evaluation and
	alternatives north of the "redline" which the Corps	screening are provided in Section 3 and Appendix E of the CEPP Draft PIR/EIS.
	could have included in the Draft PIR/EIS, some of	
	which could save hundreds of millions of dollars	
	and allow the CEPP to be implemented more	
	quickly. The Corps has refused to evaluate them.	
	Even if the Corps does not prefer an alternative	
	proposal, it must at least analyze and disclose such	
	alternatives to members of Congress and the public	
	so that they can make up their own minds.	

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CRYSTALS-13	The Corps is deferring analysis under NEPA and	The Corps has provided NEPA and Savings Clause analysis of the CEPP plan including
	the WRDA 2000 Savings Clause of critical plan	the draft operating plan in Annex C and has also committed to confirm compliance
	elements. Instead of analyzing all parts of the	with legal requirements upon implementation of each CEPP phase. The Corps has
	overall CEPP plan, the Corps is deferring analysis of	identified risks and uncertainties associated with CEPP implementation (Section 6.10).
	critical plan elements, In particular, the Corps is	
	deferring the development of operational plans,	
	and is not tackling difficult water quality issues.	
	This means that the agency has not worked	
	through all of the issues yet, and risks encountering	
	unexpected challenges after it commits to the plan.	
CRYSTALS-14	It is more important to get the CEPP right than rush	Thank you for your comment regarding the Civil Works Program - Pilot Study
	through an incomplete plan. The Corps has	Implementation. This study process continues to use quality planning practices and is
	proposed its new "3-3-3 process" for civil works	intended to increase public participation, broaden public input and shorten the
	planning that establishes a framework for	timeframe for completion of a pre-authorization (planning) study.
	developing and approving projects within a three-	
	year planning schedule. This concept offers great	
	possibilities for adding efficiency and predictability	
	to Corps planning. However with the CEPP, which	
	seeks to combine several large and very	
	complicated plans into a single process, the Corps	
	sought to rush the project through in eighteen	
	months. The goal was laudable, but unrealistic, and	
	the process has not produced a plan that is ready	
	for the necessary public review (much less	
	Congressional action).	
CRYSTALS-15	We offer our detailed comments below on the	Thank you for your comments. All letters with comments have been entered into the
	Draft PIR/EIS so that the Corps can correct the	Administrative Record.
	flaws in the CEPP and have a solid plan which can	
	be approved by Congress, permitted and operated	
	as proposed.	
CRYSTALS-16	The CERP Programmatic Regulations require that a	The CEPP Draft PIR/EIS meets all requirements of the Programmatic Regulations and
	"Project Implementation Report shall [b]e	all applicable laws, policies and regulations. Section 7 and Appendix C.4 of the Draft
	consistent with the Plan and applicable law, policy,	PIR/EIS address compliance of the proposed plan.
	regulation." 33 CFR 385.26(a)(3)(i). In particular,	
	the regulations provide that "[p]rior to requesting	The SFWIMD is required to obtain approval from FDEP for reasonable certainty that
	approval or authorization for the implementation	all project components are consistent with applicable law and regulations, and can be
	or a project, the corps or Engineers and the non-	permitted and operated as proposed, g 3/3.1301(5)(c), F.S. A 1501 Compliance

COMMENIER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Federal sponsor shall complete a Project	report is included in Annex B of the Final Project Implementation Report.
	Implementation Report addressing the project's	
	justification [in accordance with WRDA 2000]	
	[and] address the factors of relevant State laws,	Sponsor letter of support is included in the Final PIR.
	including sections 373.1501 and 373.470 of the	
	Florida Statutes." 33 CFR § 385.26(a)(I); see also	
	Programmatic Regulations Proposed Rule, 67 Fed.	
	Reg. 50540, 50544 (Aug. 2, 2002) (PIRs must	
	Provide information required by the state of	
	concor") The Draft BID/EIS does not sufficiently	
	address the requirements of the Programmatic	
	Regulations, and needs to be revised before the	
	CEPP can be approved.	
CRYSTALS-17	1. Water Quality	The SFWMD is required to obtain approval from FDEP for reasonable certainty that all
	The Corps and other agencies need to ensure that	project components are consistent with applicable law and regulations, and can be
	the CEPP plan can be implemented consistent with	permitted and operated as proposed," § 373.1501(5)(c), F.S. A 1501 Compliance
	water quality rules. The CERP Programmatic	report is included in Annex B of the Final Project Implementation Report.
	Regulations provide that a "Project	
	Implementation Report shall [c]omply with	Regarding source of CEPP Phosphorus Loads: Current Lake Okeechobee water
	applicable water quality standards and applicable	column phosphorus concentrations are the result of present day sources which
	water quality permitting requirements." 33 CFR §	include nutrient loads from the Kissimmee Basin, EAA backpumping, and sediment
	385.26(a)(3)(vi). Florida law prohibits state	load,
	agencies from approving a PIR unless they	
	"determine with reasonable certainty that all	Regarding STAs not designed for CEPP flows: CEPP flows are generally scheduled for
	project components can be permitted and	the winter and spring seasons when STAs have historically not processed significant
	operated as proposed." Florida Statutes§	volumes of stormwater. CEPP flows during these periods are likely to result in a
	373.1501(5)(c). The Draft PIR/EIS does not provide	reduction in the frequency of detrimental STA dryout events which should improve
	those assurances.	overall STA performance. Due to the timing shift in flows CEPP takes advantage of
		unused treatment capacity. The SFWMD and the USACE have extensive experience
	1A. Water Quality Based Effluent Limitation	planning, designing, and operating constructed wetland water quality treatment
	("WQBEL") for WCA's Discharges from the STAs	facilities such as STAs. Flow equalization basins are a new concept however, they are
	generally must meet the WQBEL, which prohibits	similar in many ways to STAs. The nutrient removal capability of the A-1 FEB was
	flow-weighted mean phosphorus concentrations	extensively evaluated by State and Federal agencies during the negotiation of the
	from exceeding 13 ppb in more than three out of	Restoration Strategies Plan. The modeling assumptions used for Restoration
	five years on a rolling basis. Today, EAA farmers	
	and the SFWMD have substantially achieved the	of the FEB/STA system indicates that these water treatment facilities will be capable

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	initiating construction of most CEPP project	
	features."§ 6.7.1, p. 6-38; § 8, p. 8-5 (District	
	Engineer Recommendation v: "the binding	
	agreement shall include terms and conditions of	
	ration for imp	
	forth below Restoration Strategies	
	Compliance-Recognition that all features of the State's Restonation Strategies must be completed	
	and meet State water quality standards prior to	
	initiating construction of most CEPP project	
	features."); Annex F, p. F-33. Florida Crystals agrees	
	that such a condition is necessary to protect	
	against potential violations of the WQBEL resulting	
	from the delivery of new lake water. We support	
	the recommendation of the District Engineer that	
	this condition be made a legally-binding constraint	
	on implementation of the CEPP. Also, the PIR	
	would be more useful to policy makers and the	
	public if it included the current construction	
	schedule for the Restoration Strategies Project.	
	That schedule indicates a 15-year construction	
	period followed by at least three years to confirm	
	that the WQBEL is being met.	
CRYSTALS-18	18. Appendix A for Everglades National Park	The SFWIMD is required to obtain approval from FDEP for reasonable certainty that all
	Independent of the WQBEL, the Consent Decree in	project components are consistent with applicable law and regulations, and can be
	United States v. SFWMD, Case No. 88-1886 (S.D.	permitted and operated as proposed," § 373.1501(5)(c), F.S. A 1501 Compliance
	Fla.), requires even lower phosphorus levels in	report is included in Annex B of the Final Project Implementation Report.
	federal areas ofthe Everglades. Appendix A of the	
	Consent Decree, which governs phosphorus levels	Savings clause evaluations and the Draft Project Operating Manual have only been
	in water entering Everglades National Park, sets	provided for the entire project. To address any future uncertainties related to
	the long-term limit on phosphorus concentrations	incremental implementation, it is recognized that prior to implementation of each
	at 8 ppb in the Shark River Slough in wet years. The	phase, additional detailed analyses pertaining to that phase of implementation will be
	methodology for the limit in Consent Decree	considered in development of the Project Operating Manual. These analyses will
	Appendix A is sensitive to the amount of water	include demonstration that Savings Clause and Project Assurances requirements for
	released into the park by the Corps, i.e., the	the project phase will be met prior to PPA execution. This is discussed in Section
	phosphorus concentration limit decreases as flow	6.7,1.7,
	increases. Annex F, p. F-31.	

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	It appears likely that the CEPP will trigger a violation of Appendix A. Since 2007, phosphorus concentrations entering the park have been very close or equal to the Appendix A long-term limit. Annex F. p. F-31. The SFWMD currently is being accused of a violation because phosphorus levels are one-tenth of 1 ppb above the Appendix A limit. Increasing flows to the park as part of the CEPP will lower the phosphorus concentration limit even further. At the July 9, 2013 meeting of the South Florida Ecosystem Restoration Task Force, the Corps' project manager for the CEPP stated that Horida Ecosystem Restoration Task Force, the Corps' project manager for the CEPP stated that there is an "jajcknowledgement that there is a likelihood of an exceedance due to increased flows into ENP based upon the current Appendix A methodology." See also Draft PIR/EIS, p. E5-8 ("State and federal water managers expressed concerns that the recommended plan may increase the probability of exceeding the compliance limit if in Appendix A", Sig. 22, p. 6-24 ("The Corps and its federal and state partners recognize that to achieve long-term hydrologic improvement, water quality may be impacted, particularly as measured by the current Consent Decree Appendix A compliance with the WQBEL, the document contains only a "qualitative assessment of compliance with the WQBEL, the document contains only a "qualitative assessment of compliance." Annex f. at F-34. Since the Corps did not actually calculate whether the CEPP would comply with Appendix A of the Draft PIR/EIS concludes that "[i]t is uncertain how changes in flow distributions proposed under CEPP will impact compliance with Appendix A of the 1991 Settlement Agreement." Annex F. p. F-34.		
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	This conclusion is not sufficient to demonstrate "reasonable certainty that all project components	
	can be permitted and operated as proposed,"	
	Florida Statutes § 3 73.15 01 (5)(c), which is the	
	standard which governs whether Florida agencies	
CRYSTALS-19	Unlike the WQBEL issue, the Draft PIR/EIS offers no	The Corps planning process requires that project risk and uncertainty be identified.
	real solution for the problem of Appendix A	The draft PIR identifies the Appendix A Shark River Slough compliance criteria as a
	compliance. The document acknowledges that the	project risk and discusses the current plan to resolve the issue.
	problem is the criteria in Appendix A, not the	
	quality of the water that will be delivered to the	
	_	
	partners agree that the monitoring	
	locations/stations for inflows to ENP will require	
	revision."). Despite this, no actual changes to	
	Appendix A are proposed in relation to the CEPP.	
	Instead, the agencies have only agreed to have	
	meetings between federal and state staff to discuss	
	how to proceed. § 6.3.2, p. 6-25 ("In an effort to	
	determine updates to Appendix A , the parties to	
	the Consent Decree have established a process and	
	scope for evaluating and identifying necessary	
	revisions to the Appendix A compliance	
	methodology Ultimately, such evaluations and	
	changes to the Appendix A compliance	
	methodology would be recommended for	
	potential agreement by all parties."). There is no	
	deadline for these discussions to be completed, or	
	for any revisions to Appendix A to be agreed upon.	
	History shows that just because the agencies are	
	talking does not mean that they will reach any	
	agreement: the state and federal agencies have	
	been discussing these issues literally for years, and	
	they are yet to be resolved. Moreover, any	
	modifications to the Consent Decree will need to	
	be approved by the U.S. District Court, and third	
	parties have vociferously opposed in the past any	

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	changes to the phosphorus limitations. Appendix A	
	has also been incorporated into state water quality	
	standards approved by EPA, Fia. Admin. Code§ 62-	
	302.540(4)(c), and changes to Appendix A may	
	necessitate a formal change to state water quality	
	standards, another lengthy and possibly	
	contentious process. The Draft PIR/EIS therefore	
	identifies a serious obstacle to implementing the	
	CEPP, but no real solution.	
CRYSTALS-20	The history of the Modified Water Deliveries	Although implementation challenges remain, the federal agencies are planning for
	Project proves out our concerns. That project calls	success on implementation of the MWD project and development of final Water
	for pumping water from the L-31N canal into	Control Plan that includes use of the existing S-356 pump station to achieve the goals
	Northeast Shark Slough to address increased	of the MWD project. Please refer to response to CRYSTALS-8 comment as to the on-
	groundwater seepage from additional water	going and planned activities to utilize the existing S-356 pump station for the MWD
	deliveries to that area of the park. The Corps	project.
	completed construction of the S-356 pump station	
	in 2003-10 years ago-to do this. However, the	Furthermore, the significant amount of water resulting from CEPP is contemplated to
	pump has never been permitted or used due to	
	concerns that it would lead to a violation of	recognize that water quantity and quality restoration should be pursued concurrently
	Appendix A. § 2.5.7, p. 2-16 ("The following MWD	and have collaborated to develop and concur on a suite of restoration strategies
	features have been constructed or are in progress.	being implemented by the state to improve water quality ("State Restoration
	f. Pump Station S-356-complete (temporary	Strategies"), as well as other state and federal restoration projects, both underway
	pump station), no operational permit"). The federal	and planned, to best achieve Everglades hydrologic objectives. Specific examples of
	agencies apparently do not expect to ever resolve	federally authorized projects include the Everglades Restoration Transition Plan,
	this issue. In the Draft PIR/EIS, the Corps has	Modified Water Deliveries to Everglades National Park Project, and the Tamiami Trail
	refused to include operation of the Modified Water	Next Steps Project. [‡] One of the goals of these projects and their associated operating
	Deliveries Project in the "future without project	plans, as well as certain components of the awaiting authorization or that are being
	condition." § 2.5, Table 2-2 ("Future Without	planned as part of the Central Everglades Planning Project is to improve water
	Project Condition: Construction completed (no	quantity and quality in the Everglades through more natural water flow within the
	operational changes assumed for modeling): MWD	remnant Everglades which includes the water conservation areas and Everglades
	"); Annex C, p. C-25. The Draft PIRIEIS explains	National Park ("ENP"). Variations in flows of the Central and South Florida ("C&SF")
	that "[t]he FWO project condition describes what is	system may result from a variety of reasons. These reasons include natural
	assumed to be in place if none of the study's	phenomena (e.g. weather) and updates to the operating manuals to achieve the

 $^{^{\}rm I}$ The next phase of bridging for Tamianui Trail roadway as authorized by Congress.

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	alternative plans are implemented." § 2.1, p.2-1; see also U.S. Water Resources Council Principles	purposes of the C&SF project such as flood control and water supply.
	and Guidelines§ 2.1 (FWO represents the "most	One goal of the Consent Decree ² is to restore and maintain water quality within ENP.
	place"). Since all of the major construction features	The Consent Decree established, among other things, long-term water quality limits for ENP are flow
	of the Modified Water Deliveries Project will be	dependent and, generally, increased volume of water results in a lower allowable
	the federal agencies are planning for failure on this	concentration of phosphorus to maintain the overall load of phosphorus entering the ENP. There will be redistribution of flows and increased water volume above existing
	project due to water quality issues. Instead of	flows associated with system restoration efforts beyond the current State Restoration
	acknowledging this roadblock, the CEPP plan calls for increasing the size of the S-356 pump, without	Strategies projects. The Corps and its federal and state partners recognize that to achieve long-term hydrologic improvement, water quality may be impacted.
	solving the problem which prevents the existing	particularly as measured by the current Consent Decree Appendix A compliance
	pump from being used.	methodology. The Corps and the state partners agree that the monitoring
		locations/stations for inflows to ENP will require revision. An evaluation of this and
		other aspects of the compliance methodology are currently being conducted by the
		Technical Oversight Committee ("TOC").
		In an effort to address these potential impacts and determine updates to Appendix A
		to reflect increased inflows and new discharges into ENP since the Consent Decree
		was entered, the parties to the Consent Decree have established a process and scope
		for evaluating and identifying necessary revisions to the Appendix A compliance
		relevant data including the Scientific expertise of the FOC. The FOC may consider all relevant data including the 20 years of data collected since Amendix A was
		implemented. Ultimately, such evaluations and changes to the Appendix A
		compliance methodology would be recommended by the Consent Decree's TOC for
		potential agreement by all parties.
CRYSTALS-21	Florida law prohibits approval of the CEPP by state	
	agencies until this Appendix A issue is resolved. The	
	Draft PIR/EIS politely admits as much: "Failure to	permitted and operated as proposed," § 373.1501(5)(c), F.S. A 1501 Compliance
	develop a revised [Appendix A] compliance	report is included in Annex B of the Final Project Implementation Report.
	methodology will impact the state's ability to	
	Implement or approve these projects. 9 6.3.2, p.	

² United States v. South Florida Water Management District, et al., Case No. 88-1886-CIV-Moreno (U.S.D.C., S.D. Fla.).

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	6-25. So that the state agencies can approve the	
	CEPP PIR/EIS, we recommend that the Corps make	
	It a priority and reach an agreement on revisions to Annendix A and obtain court approval prior to	
	finalizing the PIR/EIS.	
CRYSTALS-22	1C. Lake Okeechobee TMDL	The FDEP is in the process of developing a BMAP for Lake Okeechobee pursuant to
	The proposed CEPP plan calls for backflows of	Section 403.067, Florida Statutes. This BMAP will be an iterative effort to address
	water from the C-44 basin (through S-308) into	water quality issues in Lake Okeechobee. Potential water quality issues associated
	Lake Okeechobee, in an attempt to offset the loss	with S-308 loads will be addressed as part of the BMAP.
	of water supply for existing legal users in the Lake	Carying planes and the Design Design Manual base and the Design Processing Manual base and thou
	י א פינידן, די טיינידן איני איני איני איני איני איני איני אינ	provided for the entire project. To address any future uncertainties related to
	Without those backflows, LOSA users will lose an	incremental implementation, it is recognized that prior to implementation of each
	important part of their water supply during	phase, additional detailed analyses pertaining to that phase of implementation will be
	droughts. This backflow of C-44 basin water is	considered in development of the Project Operating Manual. These analyses will
	necessary for the A-2 Flow Equalization Basin to	include demonstration that Savings Clause and Project Assurances requirements for
	operate as planned. § 6.8.1, p. 6-46. The Draft	the project phase will be met prior to PPA execution. This is discussed in Section
	PIR/EIS indicates that the proposed backflows will	6.7.1.7.
	violate water quality rules for Lake Okeechobee,	
	specifically, the Total Maximum Daily Load	The SFWIMD is required to obtain approval from FDEP for reasonable certainty that all
	("TMDL") limitations. § 5.1.9, Table 5.1-3, p. 5-14; §	project components are consistent with applicable law and regulations, and can be
	5.2.9, Table 5.2-2, p. 5-40; § 7.4.2, p. 7-9 to 7-10.	permitted and operated as proposed," § 373.1501(5)(c), F.S. A 1501 Compliance
	Experience indicates that this will prevent the	report is included in Annex B of the Final Project Implementation Report.
	delivery of the water; the Florida DEP rejected a	
	similar proposal a decade ago in relation to the	
	Indian River Lagoon planning process. IRL Final	
	PIR/EIS, p. H-41 (March 2004) ("Issues regarding	
	Lake water quality and TMDLs are currently	
	precluding the delivery of new sources of water to	
	the Lake.")	
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	The Draft PIR/EIS offers no solution for this	
	problem. The document only states that the issue	
	"will be addressed holistically throughout the	
	watershed via the [Florida DEP' s] Lake	
	Okeechobee Basin Management Action Plan	
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	(BMAP) process. The BMAP is currently under development via a public stakeholder driven process." § 5.1.9, Table 5.1.3, p. 5-12. In other words, the Corps is assuming that the water quality rules will change based on a "process" run by a different agency over which it has no control. This provides no "reasonable certainty that all project components are consistent with applicable law and regulations, and can be permitted and operated as proposed." Fla. Stat. § 373.1501(5)(c). Moreover, if the backflows cannot be "permitted and operated as proposed," then the CEPP will violate the Savings Clause which provides that "the [Corps] and the non-Federal sponsors shall not eliminate or transfer existing legal sources of water" until "a new source of water supply of comparable quantity and quality is available." WRDA 2000, § 601(h)[5](A).	
	We recommend that the Corps obtain legal authorization for the C-44 basin backflows before finalizing the PIR/EIS, so that the SFWMD can approve the plan under Florida law. We also support the District Engineer's recommendation that there be a "binding agreement" that "[c] porstuction of CEPP project features cannot proceed until it is determined that construction and operation of the feature will not cause or contribute to a violation of State water quality standards; and will not cause or contribute to a violation of State water quality dischained limits or specific permit conditions." Ch. 8, w, pp. 8-5 to 8-6.	
CRYSTALS-23	 Water Supply As avings Clause The WRDA 2000 Savings Clause provides that "[u]ntil a new source of water supply of comparable quantity and quality as that 	Consistent with the WRDA 2000 and the Programmatic Regulations, the savings clause analysis identifies the effects of the plan, not non-CERP actions (including, for example, LORS). The CEPP future without project assumes continued operation of Lake Okeechobee under the 2008 Lake Okeechobee Regulation Schedule, as

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provided for the entire project. To address any future uncertainties related to The SFWMD is required to obtain approval from FDEP for reasonable certainty that all project components are consistent with applicable law and regulations, and can be incremental implementation, it is recognized that prior to implementation of each phase, additional detailed analyses pertaining to that phase of implementation will be include demonstration that Savings Clause and Project Assurances requirements for presented in Annex B Section B.3.1.1, concludes that Alternative 4R2 meets the requirements of the Savings Clause. The volume of demand not met for the LOSA during the eight years with the largest water shortage cutbacks in the period of simulation is the same or slightly improved when comparing the with-project condition, Alt 4R2, and the without project condition, IORBL1. In six of these years, the volume of demand not met is reduced (i.e. improved water supply performance) by approximately one to seven percent. In the two remaining years where the volume of demand not met increases compared to the without project condition (1981 and 1982), the increase is one percent or less. Over the entire period of simulation, the average annual volume of demand not met during water shortages declines by 6 kAF (1%) in the with-project condition compared to the without-project condition (Alt 4R2 and IORBL1 average 29 kAF and 35 kAF of cutbacks for EAA and Other LOSA Table 6-10 in Section 6.7 (Plan Implementation) documents a number of project The FDEP is in the process of developing a Basin Management Action Plan (BMAP) for Lake Okeechobee pursuant to Section 403.067, Florida Statutes. This BMAP will be an iterative effort to address water quality issues in Lake Okeechobee. Potential water permitted and operated as proposed," § 373.1501(5)(c), F.S. A 1501 Compliance Savings clause evaluations and the Draft Project Operating Manual have only been considered in development of the Project Operating Manual. These analyses will the project phase will be met prior to PPA execution. This is discussed in Section described in Section 2 of the PIR. The CEPP Savings Clause analysis for the LOSA. dependencies including but not limited to the C-44 Reservoir (IRL-S Project) and quality issues associated with S-308 loads, including backflows to Lake Okeechobee, report is included in Annex B of the Final Project Implementation Report. will be addressed as part of the BMAP. connection to the C-23 Canal. combined, respectively). CORPS RESPONSE CERP Programmatic Regulations provide that a evels contained in the 2008 Lake Okeechobee was enacted. While we will not repeat all of our available on the date of enactment of this Act is of implementation of the Plan, the [Corps] and the an agricultural or urban water supply." WRDA djetermine ... if existing legal sources of water are to be eliminated or transferred." 33 CFR § 385.26(a)(3)(x). If that will occur, "then the Project implementation Report shall include an source of water of comparable quantity and quality barred until new sources of comparable quantity ensures that existing legal users will not be harmed by the CEPP. In our previous comment letters, we reduce agricultural water supply for users in the Regulation Schedule ("LORS 2008") compared to water supplies available at the time WRDA 2000 comments on this point, we note that the Corps appears to be selectively identifying its sources of available to replace the water to be lost as a result 2000, § 601(h)(5)(A). Based on that language, the implementation plan that ensures that such of the implementation of the Plan." Id. § 385.36(a). "Elimination of existing sources of water supply is and quality of water are available." S. Rep. No. 106-362, quoted in Programmatic Regulations Proposed pointed out how the CEPP proposal would severely authority with regard to the Lake Okeechobee non-Federal sponsor shall not eliminate or transfer existing legal sources of water, including those for is available to replace the water to be lost as result LOSA, by locking in lowered Lake Okeechobee elimination or transfer shall not occur until a new The Draft PIR/EIS fails to contain a plan that 'Project Implementation Report shall Rule, 67 Fed. Reg. 50540, 50546 (Aug. 2, 2002). COMMENTER | AGENCY/PUBLIC COMMENT

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COMMENTER	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
	Regulation Schedule to avoid protecting existing	6.7.1.7.
	legal users as required by the WRDA 2000 Savings	
	Clause. In the Draft PIRIEIS, the Corps asserts that	
	this elimination of water supply is not subject to	
	the Savings Clause because LORS 2008 was an	
	"[i]ntervening non-CERP activit[y] wholly outside	
	of CERP." Annex B, § B.2.2, p. B-9. This apparently	
	is based on the LORS 2008 Supplemental EIS's	
	reference to language contained in WRDA 1992	
	which authorized the review of the C&SF Project	
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	Regulation Schedule, Final Supplemental	
	Environmental Impact Statement, p. 1 (Nov. 2007)	
	(referencing "Section 310 of the 1990 Water	
	Resources Development Act" as the source of	
	authority for LORS 2008; Congress did not pass a	
	WRDA 1990, but the quoted language was included	
	in Section 309(1) of WRDA 1992). The reference to	
	WRDA 1992 does not avoid the WRDA 2000	
	Savings Clause, because WRDA 2000 generally	
	governs authorization for Corps' revisions to the	
	C&SF Project after it was enacted in 2000; WRDA	
	1992 only authorized a "review" of the original	
	C&SF Project, and the proposed revisions to the	
	C&SF Project identified as a result of that review	
	were set forth in the CERP approved in WRDA	
	2000, Congress also made clear in WRDA 2000 that	
	it approved the CERP as "a framework for	
	operational changes to the Central and Southern	
	Florida Project," and the CERP included an	
	operational feature entitled "Lake Okeechobee	
	Regulation Schedule (F)." It is disturbing to see the	
	Corps engage in legal gymnastics to avoid	
	protecting the many existing legal users around	
	Lake Okeechobee,	
	Firm if one just focuses on the operational changes	
	Even il one just rocuses on the operational changes	
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	44 basin backflows will not be used to replace	
	existing legal water supply for the LOSA users, but	
	instead will be used to send additional flows to the	
	WCAs. Such a revision would mean that if the	
	Corps is unable to deliver C-44 backflows to Lake	
	Okeechobee, then LOSA water users would be held	
	harmless and there would be no violation of the	
	Savings Clause. This is in addition to the steps we	
	recommend above related to resolution of the	
	water supply issue.	
CRYSTALS-24	2B. Improvements to Agricultural and Urban Water	The planning effort included an extensive modeling effort to specifically consider
	Supplies	improvements in water supply for the Lake Okeechobee Service Area and the Lower
	One of the purposes ofthe 1999 Approved CERP	East Coast Service Area. The proposed CEPP Plan results in a 12 MGD and 5 MGD
	Plan was to affirmatively increase agricultural and	increase in water supply for the Lower East Coast Service Area (LECSA) -2 in Broward
	urban water supplies, not just prevent them from	and LECSA-3 in Miami-Dade County, respectively, as described in Section 4.6.2. The
	shrinking. The Florida Legislature, in approving the	CEPP Plan does not improve water supply for Agricultural users in the Lake
	1999 Approved CERP Plan, directed state agencies	Okeechobee Service Area (LOSA) as stated in Section 6.8.6. Section 6.8.6 and Annex
	to " [e]nsure that project components will be	B will clarify that the additional water made available in LECSA 2 and LECSA 3 will be
	implemented to achieve the purposes that	available for municipal, industrial and agricultural users.
	include providing such features as are necessary	
	to meet the other water-related needs to the	As indicated in the CEPP Scoping Letter, the scope of the CEPP study from the onset
	region, including the enhancement of water	was to develop an initial increment of the project features that provide for storage,
	supplies " Fla. Stat.§ 373.470(3)(b)(2). The	treatment and conveyance south of Lake Okeechobee, removal of canals and levees
	Legislature also required the SFWMD to complete a	within WCA-3 and seepage management features to retain water within the natural
	PIR, which "shall identify the increase in water	system to provide an initial increment of restoration for the northern estuaries and
	supplies resulting from the project component." Id.	the central Everglades ecosystem. The CERP components identified to consider
	-(3)(c).	increments of to accomplish this included the EAA Storage reservoirs, WCA-3
		Decompartmentalization and Sheetflow Enhancement, ENP Seepage Management
	Even though the CEPP is the grouping of projects	and Everglades Rain Driven Operation. The National Academy of Sciences (National
	which govern the central part of the state from	Resource Council 2007) has recommended the implementation of CERP through an
	Lake Okeechobee to Florida Bay, the Draft PIR/EIS	incremental adaptive restoration process. CEPP has adopted that recommendation
	indicates that it will not increase water supplies for	and formulated a solution for an increment of overall restoration of the south Florida
	people at all. § 6.8.6, p. 6-48 ("The CEPP	ecosystem. It has always been the intent of the study to identify the first increment
	components do not directly provide water to meet	of these CERP components and did not intend to develop the plan for complete build-
	other water related needs in LOSA, LECSA 2	out of these CERP features or their functions towards the goals of the CERP.
	[Broward County], or LECSA 3 [Miami-Dade	
	County]."); see also Annex B, § B.4.4, p. B-71. For	County]."); see also Annex B, § B.4.4, p. B-71. For The CEPP plan proposes to implement a shallow reservoir within the EAA as part of

CEPP Final PIR and EIS

COMMENTER	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
	agricultural water users, the CEPP contains no	the function of the EAA Reservoirs contemplated in the CERP Plan. As initially
	additional storage in Lake Okeechobee for	authorized in WRDA 2000, the CERP EAA Storage Reservoir -Phase I included two
	agricultural supply, and significantly changes the	conceptual 20,000-acre compartments capable of storing up to 120,000 ac-ft each.
	EAA reservoir feature of the 1999 Approved Plan to	Compartment I was to be used to meet EAA agricultural irrigation demands by storing
	eliminate agricultural water supply as one of its	excess EAA runoff. Compartment II was envisioned to capture both Lake Okeechobee
	functions. Under the CEPP, agricultural users will	regulatory releases and Compartment I overflow and served to supply environmental
	have less water supply than when Congress	water deliveries to the Water Conservation Areas. The CEPP PIR is recommending
	approved the CERP in WRDA 2000, and less water	authorization of a portion of the Compartment 2 functions identified in the initially
	supply than called-for in the 1999 Approved CERP	authorized CERP project. CEPP proposes to implement this component by
	Plan. For urban water users, the Oratt PIK/EIS indicator that the CEDB might gongstoned different	constructing an approximately 14,000-acre FEB on the A-2 footprint with a maximum
	water, but only after "completion of all CEPP	conturing Lake Okeechobee regulatory releases. Operated in conjunction with the
	project features" and a series of steps which will	State Restoration Strategies' FEB on the A-1 footprint, an additional 210,000 acre-feet
	not occur for many years, if ever.	of water will be delivered to Water Conservation Area 3A on an average annual basis.
		The CEPP plan provides only a portion of the storage, treatment and additional water
	Annex B, § B.4.4, p. B-71. This is quite surprising,	flow needed to meet the goals for ecosystem restoration and other water related
	since the CEPP has been sold to the urban	needs envisioned in CERP. Section 6.9.2 has been updated to explicitly clarify that
	communities of Southeast Florida as a solution to	additional Improvements in water supply will need to be considered in future
	their water supply concerns. The communities of	increments of CERP that provide additional storage for capturing water currently
	people who live in South Florida are being put at	being sent to tide from Lake Okeechobee or other sources, thereby, increasing water
	the back of the line when it comes to water supply	made available in the regional system for other water related needs. The CEPP
	in this plan. We recommend that the PIR/EIS be	Recommended Plan A-2 FEB does not preclude future increments of CERP planning
	revised to acknowledge the responsibility to	for additional storage in the EAA to provide additional water supply deliveries for
	increase water supplies for the people of South	either agricultural irrigation or the environment.
	Florida and commit to providing that water supply	
	at the time each CEPP component is constructed.	Similarly, Section 6.9.1 acknowledges that additional actions are needed to achieve
		ecosystem restoration envisioned in CERP.
		Section 6.9.8 "CERP Comparison to CEPP" has been added to the PIR and includes
		discussion of changes in cost and scope of the relevant CERP Project components
		from that presented in the Final Integrated Feasibility Report and Programmatic
		Environmental Impact Statement dated April 1, 1999.
CRYSTALS-25	3. Revisions to the Lake Okeechobee Regulation	
	Schedule	
	The CERP Programmatic Regulations provide that a	
	"Project Implementation Report shall [i]nclude	
	a draff Project Operating Manual as an appendix."	Tor Lake Ukeechobee operations are found in Appendix A (Engineering) of the CEPP

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As further described in Section 6.1.1, it is anticipated that the need for modifications expects to operate under the 2008 LORS until there is a need for revisions due to the culvert improvements, as described in Section 2.5.1. When HHD remediation is completed and the HHD DSAC Level 1 rating is lowered, higher maximum lake stages and/or (2) is unknown at this time. It is anticipated that the need for modifications to Operating Manual (currently the Master Water Control Manual) to ensure that the operations of all projects, CERP and non-CERP, are integrated and consistent and that the system is operated to achieve the benefits of the CERP Plan. The CEPP plan also acknowledges that revision(s) to the current 2008 LORS, as well as Volume 3 of the System Operating Manual for Lake Okeechobee and the Everglades Agricultural Area (currently Volume 3 of the Master Water Control Manual - Lake Okeechobee and Everglades Agricultural Area) will be needed to effectively integrate the features of CEPP with the completed HHD remediation, the Kissimmee River Restoration, and to the 2008 LORS will be initially triggered by actions other than CEPP implementation. Independent of CEPP implementation, there is an expectation that revisions to the 2008 LORS will be needed following the implementation of other CERP projects and Herbert Hoover Dike infrastructure remediation. The USACE earlier of either of the following actions: (1) system-wide operating plan updates to accommodate CERP "Band 1" projects, as described in Section 6.1.3.2, or (2) completion of sufficient HHD remediation for reaches 1, 2 and 3 and associated and increased frequency and duration of high lake stages may be possible to provide the additional storage capacity assumed with the CEPP TSP. The future Lake Okeechobee Regulation Schedule which may be developed in response to actions (1) the 2008 LORS will be initially triggered by non-CEPP actions and that these actions will occur earlier than implementation of CEPP. Therefore, the CEPP PIR will not be the mechanism to propose or conduct the required NEPA evaluation of modifications to the Lake Okeechobee Regulation Schedule. However, depending on the ultimate outcome of these future Lake Okeechobee Regulation Schedule revisions, including the level of inherent operational flexibility provided with these revisions, CEPP Implementation of the CERP plan envisioned the need to update the System other CERP projects which are connected or adjacent to Lake Okeechobee. CORPS RESPONSE ₽, revised Lake Okeechobee Regulation Schedule in projects of the Plan and other C&SF Project features," and must "[c]omply with NEP A" and "[describe regulation schedules, water control, and (Nov. 12, 2003) (discussing changes to proposed We have major concerns about the absence of a regulation schedule is a necessary element of the Everglades. In order to do that, not only do the ಧ 33 CFR 385.26(a)(3)(xvi). Operating Manuals are operating criteria for a project, group of projects, or the entire system." 33 CFR § 385.28(a)(2), -(6)(ii)-(iii). The reason the Programmatic Regulations require inclusion of a draft Project aware of how new project features will be used before those features are built. Programmatic regulations to limit Corps' ability to deviate from the Draft PIR/EIS. On several previous occasions, we asked the Corps to consider revisions to LORS 2008 in the formulation of the CEPP. A revised because the central concept of the CEPP is to divert excess water from the lake to the Central operational rules need to be changed to allow for diversion of water south, but the Corps needs to Flow Equalization Basin. This provides the opportunity to not only provide more water for the Central Everglades, but also to improve water Operating Manual is so that all stakeholders are grouping of projects that make up the CEPP, store additional water in the lake to supply the A-2 the "operating plan for the operation of the Regulations Final Rule, 68 Fed. Reg. 64200, 64212 supply for existing legal users in LOSA and operational plans contained in PIR). COMMENTER | AGENCY/PUBLIC COMMENT

implementation may still require further Lake Okeechobee Regulation Schedule

revisions to optimize system-wide performance and ensure compliance with Savings

Clause requirements.

In the Draft PIRIEIS, the Corps finally acknowledges

improve conditions for the Northern Estuaries.

CORPS RESPONSE that it must revise LORS 2008 in order to COMMENTER | AGENCY/PUBLIC COMMENT

(from 34 to 68) and nearly double the number of \mid days when lake levels will exceed 17.25 feet NGVD from 18 to 29). Annex B, Figure B-32, p. B-48. In mplement the CEPP, and must quickly move implement the CEPP. See, e.g., § 4.1.3, p. 4-5; § 4.6.2, p. 4-22; § 6.7.1, Table 6-10, p. 6-39. The Corps acknowledges that the triggers set forth in be completed by 2022. § 2.5.2. Indeed, the Draft PIR/EIS assumes that the lake would be managed in LORS 2008 is designed to avoid lake levels over 17 feet NGVD in order to avoid the risk of a catastrophic dike failure. The Draft PIR/EIS indicates that the CEPP will double the number of days where lake levels will exceed 17 feet NGVD other words, the Corps must revise LORS 2008 to forward with repairs to the HHD so that more LORS 2008 for revisions to the regulation schedule certain rehabilitations of the Herbert Hoover Dike and completion of certain restoration projects-will ways inconsistent with the LORS 2008. Specifically, vater can be stored in Lake Okeechobee.

Nevertheless, the Corps is refusing to consider and analyze revisions to LORS 2008 in the Draft PIR/EIS. The Draft PIR/EIS does not look at options for revising the schedule or the impacts of different alternative revisions. Instead, the Draft PIR/EIS contains general language about how the lake would be operated for purposes of modeling, but no detailed operational rules. The document further indicates that the Corps will comply with NEP A regarding revisions to LORS 2008 at an undisclosed later date. § 6.1.1; § 6.7.1, p. 6.41; pp. B-48, Annex C, § 7.1.1, p. C-30 ("Based on the hydrologic modeling conducted for the CEPP recommended plan, it is anticipated that changes

the schedule's current flexibility. Modifications to 2008 LORS will be required to achieved under the inherent flexibility of the 2008 LORS schedule. However, in a worst case scenario, up to 60% of the CEPP TSP's benefits may not be attained if no CEPP benefits gained from sending new water south from Lake Okeechobee are derived in part from operational refinements that can take place within the existing, inherent flexibility of the 2008 LORS, and in part with refinements that are beyond optimally utilize the added storage capacity of the A-2 FEB to send the full 210,000 ac-ft/yr of new water available in CEPP south to the Everglades, while maintaining compliance with Savings Clause requirements for water supply and flood control performance levels. Approximately 60% of the overall CEPP benefits are attributed to sending new water south from Lake Okeechobee, based on the implementation analysis in Section 6.7.1., and it is expected that most of these benefits can be new water could be delivered without adjusting the 2008 LORS. The Corps contemplates changes to the Lake Okeechobee regulation schedule in the PiR and quantifies benefits that could be achieved with optimization of the CEPP features in conjunction with such changes but does not consider NEPA analysis of regulation schedule revisions to be a connected action for purposes of NEPA. The formulation objectives for CEPP and the CERP are broader than the objectives for previous USACE Lake Okeechobee regulation Schedule revision studies. The future without project assumptions for CEPP regarding the Herbert Hoover Dike (HHD) also reflects the completion of ongoing HHD remediation measures. Consistent with the approach identified in the 2007 LORS Final Supplemental EIS, USACE expects to operate under the 2008 LORS until the earlier of (1) implementation of a new Lake Okeechobee schedule as a component of (the system-wide operating plan to accommodate CERP (Band 1 Projects) and the State of Florida's Acceler8 Projects, or (2) completion of HHD seepage berm construction or equivalent dike repairs for reaches 1, 2, and 3, as determined necessary to lower the DSAC rating from Level 1. The accourrences of both events (1) and (2) are assumed for the CEPP future with project condition and are expected to allow for greater operational flexibility of Lake Okeechobee, potentially including higher lake levels for increased water storage.

Additionally, the following correction is provided regarding the commenter's characterization of the LORS 2008 study objectives – LORS 2008 was not designed to avoid any possibility for lake levels over 17 feet NGVD in order to avoid the risk of a catastrophic dike failure. As further explained in the November 2007 LORS Final

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to the Zoole CNR will be needed; and the Zoole CNR will be needed and treated as a performance nearburing that the Zoole CNR will be needed and treated as a performance nearburing that it would be acceptable for the Preferred Alternative to have some required NEPA realization of modifications to the concurrence about the 1725 feet contraint was removed and treated as a performance nearburing that it would be acceptable for the Preferred Alternative to have some required NEPA realization of modifications to the concurrence about the 1725 feet for 12 days the Corps' failure to set forth the proposed revisions to the public health and safety under high lake level events. Alternative 1 b52A (the Corps' failure to set forth the proposed revisions to 10FS 2008 in the Dart Pily/Es violates revisions to 10FS 2008 in the Dart Pily/Es violates the Programmatic Regulations, which require the Corps to actually operate the Corps of an appendix. 33 CRR 882.26(s)(s). "(c)ompty with NEPA." (ds)(s)(ill), and 's)(describe required to consider the revisions to the corps to actually operate to completed project," (ds)(s)(ill), and 's)(describe regulation schedules, whater order to a dark project Operating Manual attach as Anne Corps' failure to see forth the revisions of their proposals before the paylore them, not the provides not revised regulation schedule for the law and expressly refuses to consider in the same impact actions and depend on the largest action should conduct on the largest action and depend on the largest action of the largest action and depend on the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest action and depend on the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest action of the largest act	ding the POM [Project Operating Manual], will be mechanism to propose or conduct the mechanism to propose or conduct the mechanism to propose or conduct the Okeechobee Regulation Schedule, although EPP PIR, May recommend that revisions to the LORS be conducted through a separate LORS be conducted through a separate LORS be conducted through a separate tr."). Corps' failure to set forth the proposed ons to LORS 2008 in the Draft PIR/EIS violates rogrammatic Regulations, which require the st of "include a draft Project Operating Lal as an appendix." 33 CRR 385.26(a)(3)(xv). Anney with NEPA, "id(a)(b)(iii), and "(d)escribe ation schedule for the order project, and "(a) escribe ation schedule swater control, and operating in for a project, "id(a)(b)(iii), and "(d)escribe ation schedule for the side or evised regulation schedule for the and expressly refuses to comply with NEPA. Draft PIR/EIS also violates NEPA. NEPA requires cies to consider the environmental impacts of proposals before they approve them, not in addition, NEPA regulations requires cies to consider in "the same impact ment" all connected actions, which include in addition, NEPA regulations require cies to consider in "the same impact ment" all connected actions, which include in addition, MEPA regulations require in and depend on the larger action for their ication." 40 CFR § 1508.25(a)(i)(iii). The Corps ously has indicated that thould conduct "one project in Project Implementation Report, rather than Repiecemeal analyses in each of the	COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
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	C.3-620	EPP Final PIR	and EIS	

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	supporting documents." Programmatic Regulations Proposed Rule, 67 Fed. Reg. 50540, 50549 (Aug. 2, 2002). The Draft PIR/EIS does precisely what NEPA prohibits, and what the Corps said it would not do. We recommend that the Corps prepare a final PIR/EIS that complies with the Programmatic Regulations and NIP A, so that the CEPP can be approved. In particular, we ask (once again) that the Corps revise LORS 2008 as part of the CEPP formulation process, and include a complete NEPA analysis in the Final PIR/EIS.	
CRYSTALS-26	4. Relationship of CEPP to the Modified Water Deliveries Project The Draff PIRIEIS does not sufficiently address the interplay between the CEPP and the Modified Water Deliveries ("MWD") Project. When Congress authorized the Comprehensive Everglades Restoration Plan in 2000, it provided that "no appropriation shall be made to construct WCA 30 Compartmentalization and Sheetflow Enhancement Project (the heart of the CEPP) until the completion of the project to improve water deliveries to Everglades National Park Protection and Expansion Act of 1989 (16 U.S.C. 410r-8)," otherwise known as the MWD Project. WRDA 2000, § 601(b)(2)(D)(iv). Without an appropriation by Congress for the central features of the CEPP-all of the work within WCA-3-the CEPP will not be implemented. The purpose offthe MWD Project is to increase deliveries of water to Everglades National Park, and redirect most those deliveries to Northeast Shark River Slough. The project originally called for a	Discussion of the Future Without Project condition assumptions is included in the PIR in Section 2.5, which includes a discussion of the Modified Water Deliveries (MWD) Project. It is expected that the MWD project will be complete and operational prior to CEPP implementation. The purpose of the MWD project is to improve water deliveries to ENP and to the extent practicable, take steps to restore the natural hydrological conditions within the park. The Corps is re-initiating pursuit of operational testing (relaxation of G-327 gage operational constraint and S-356 test) to utilize the constructed Modified Delivery project features. Planning for the G-322/35-356 field test has started but is not complete and necessary approvals (including EDEP) have not been attained information from the test will be used to develop the Final Water Control Plan for the MWD project which will allow for re-distribution of existing water flow from Western Shark River Slough to Northeastern Shark River Slough. The Corps anticipates an operational plan for the project has not yet been developed. Therefore, the CEPP FWO project condition modelling effort includes ERTP as the operational plan. The RHP CTPP contains an operational constraint at gage 6-3273 of 6.8 ft NGVD and a maximum operational stage limit of 7.5 ft NGVD in the L-29 borrow canal. Merely including a maximum operational stage limit of 8.5 ft NGVD assumption for the L-29 canal in the model would nesult in a representation of the FWO condition that violates other project condition. The detailed modeling evaluations of alternative

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	along Tamiami Trail, and in WCA-3. Since 1989, the Corps and the Department ofinterior have reduced	project are planned as part of the MWD Project planning efforts.
	the scope of the features considered to be part of	The scope of the CEPP study included consideration of the CERP component AA which
	the MWD Project, and now propose to include	included three gated culvert conveyance structures along the southern portion of the
	CEPP (e.g., the convevance features in southern	r-o/ A levee
	WCA-3A/3B). The construction features left in the	
	redefined MWD Project now are almost entirely	
	Dank	
	Integral to the MWD Project is an operational plan	
	to modify water deliveries to Everglades National	
	Park. § 2.5.7, p. 2-17. The MWD Project was built	
	on the assumption that canal stages in the L-29	
	borrow canal could be increased to 8.5 ft NGVD,	
	which would allow the delivery of significantly	
	more water to Northeast Shark River Slough. Id. p.	
	2-16. The MWD Project is not complete until the	
	Corps develops and implements a "new water	
	control plan for the area that incorporates the	
	constructed features of the project and higher	
	water levels in the L-29 Canal afforded by the	
	Tamiami Trail modifications," !d. p. 2-17. The Draft	
	PIR/EIS assumes that the MWD Project will not be	
	completed before the CEPP is implemented. In the	
	"Future Without Project Condition," which	
	represents the "most likely future conditions	
	without those plans in place" through 2050, U.S.	
	Water Resources Council, Principles and Guidelines	
	§ 2.1, the Corps assumes that the new water	
	control plan will not be implemented. See, e.g.,	
	Draft PIR/EIS, § 2.5, Table 2-2 ("Future Without	
	Project Condition: Construction completed (no	
	operational changes assumed for modeling): MWD	
	"); § 2.5 .11, p. 2-18 ("Sínce a final operational	
	plan for the MWD Project has not been completed,	
	for planning purposes, the CEPP FWO project	
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	condition will assume the 7.5 NGVD operational constraint in the L-29 borrow canal that is associated with ERTP (the current operational plan) will remain in place."), Annex C, D, C-25.	
CRVSTALS-27	We recommend that the Draft PIRIE Is be revised to better address the interaction between the MWD Project and the CEPP. First, the Final PIRJES should make completion of the MWD Project through an operational plan a precondition, initiation of the CEPP. Without such a precondition, the CEPP risks losing federal appropriations for some of its primary features, which will prevent them from being built. The Corps should make completion of the MWD Project its highest priority, because that project can yield immediate ecological benefits to Everglades National Park. Second, the Final PIRJEIS should include a MWD Project operational plan in its "future without project condition." Since the MWD Project must be completed before the CEPP can be implemented, it properly belongs in the FWO condition. Third, the analysis in the Final PIRJEIS should be revised to adjust for the increased flows to the park that would come from the MWD Project are part of the CEPP. See, e.g., Annex B, & B.33.1, p. B-65 (identifying "otal water made available by the CEPP project." by comparing the "with project condition" to the "future without base condition"). WNDA 2000 provides that "water made available by each project in the Plan" be reserved for	It is expected that the MWD project will be complete and operational prior to CEPP implementation. Table 6-11 Project Dependencies has been updated to reflect that the WWD project will be complete and operational prior to implementation of appropriate CEPP features. The final operational plan for the project has not yet been developed. Therefore, the CEPP FWO project condition modeling effort includes ERIP as the operational plan. The ERIP contains an operational constraint at gage G-3273 of 6.8 ft NGVD and a maximum operational stage limit of 7.5 ft NGVD in the L-29 borrow canal. Merely including a maximum operational stage limit of 7.5 ft NGVD in the L-29 borrow canal. Merely including a maximum operational stage limit of 7.5 ft NGVD in the L-29 borrow canal. Merely including a maximum operational stage limit of 8.5 ft NGVD assumption for the L-29 canal in the model would result in a representation of the FWO condition that violates other project purpose constraints in the system and would not represent a likely FWO project condition. The detailed modeling evaluations of alternative operational scenarios necessary to determine the operational plan for the MWD are currently planned. The SFWMD has protected the pre-project water for the natural system in the Holeyland and Rotenberger Wildliffe Management Areas; WCA-1, WCA-2A, WCA-2B, WCA-3A, and WCA-3B; and ENP through the Restricted Allocation Area Rule for the Floyely protected that water for the natural system for CEPP rome stranged by protected that water for the natural system for CEPP accurately represents the evisiting pre-project water flow (ERIP operations). This protection through State law will continue to be in effect and applicable after redistribution by deverting the pre-project (i.e. pre-CEPP that includes the MWD re-distribution of existing flow into ENP) and protecting the water made available by the CEPP project. The CEPP project is the project the project Project in the pre-project is the pre-project in the water made available by the CEPP
	environmental use only, but there is no similar provision in the authorization for the MWD Project. Compare WRDA 2000, § 601(b)(2)(h)(2) and 33 CFR	features is required for the CEPP to achieve its intended benefits. As operational plans for CEPP implementation are developed, water to be protected

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	§ 385.35(b) with 16 U.S.C. § 410-r-S(a). As a result,	by the State reservation or allocation authority for the natural system will be
	the Draft PIR/EIS seeks to reserve those increased	identified with each phase (and each PPA) of CEPP implementation will be identified,
	flows under WRDA 2000. Since the MWD Project	see Section 6.7.1.8
	was authorized in 1989, prior to the "Restudy"	
	language in the 1992 WRDA, it would follow that	
	the water reservation provisions of WRDA 2000 are	
	not applicable to MWD Project, and the Corps	
	should not seek to reserve the MWD Project flows	
	as part of the CEPP.	
CRYSTALS-28	5. Flood Protection	Project features, like the emergency overflow spillway (S-627), will need to remain in
	The Draft PIR/EIS does not sufficiently analyze	accordance with WRDA 2000 requirements. To date, no detailed modeling has been
	flood protection issues related to the proposed A-2	performed to determine the extent or frequency of emergency discharges under
	Flow Equalization Basin. WRDA 2000 provides that	extreme event outside of the 1965-2005 period of record that was analyzed for the
	"[i]mplementation of the Plan shall not reduce	CEPP PIR, The CEPP PIR Savings Clause analysis (Annex B) relied on comparison
	levels of service for flood protection that are -(i) in	between the Future Without Project condition (IORBL1) and the CEPP TSP. Consistent
	existence on the date of enactment of this Act; and	with the July 2007 draft CERP Programmatic Regulations' Guidance Memoranda #3,
	(ii) in accordance with applicable law." WRDA	the assessment for the level of service for flood protection shall be based on the
	2000, § 601(h)(5)(B). Under certain high-water	performance of the flood control system when modeled against the period of record
	events (e.g., the 50% PMP storm event modeled	- it does not refer to specific design flood targets such as the 10-year or 100-yr flood
	for the Draft PIR/EIS), the A-2 Flow Equalization	event. Within the RSM-BN simulated period of record (1965-2005), the maximum
	Basin could result in flooding of nearby agricultural	simulated stage in the A-1/A-2 FEB is 13.54 feet NGVD for the CEPP TSP; based on the
	lands. The Draft PIR/EIS does not provide the	assumed ground surface elevation of 9.63 feet NGVD used in the RSM-BN model, the
	detailed design information necessary to	peak depth is 3.91 feet over the period of record. The FEB emergency overflow
	determine whether such flooding will occur in	spillway (S-627) was designed with a crest elevation of 13.50 feet NGVD, based on the
	violation of the WRDA 2000 provision protecting	average assumed ground surface elevation of 9.00 feet NGVD used for the
	existing levels of flood protection. We recommend	preliminary (pre-PED survey) hydraulic design; the FEB emergency overflow spillway
	that the Final PIRIE IS include detailed design	would only discharge if the FEB depth exceeds 4.5 feet. Since the FEB stages over the
	information necessary to confirm compliance with	simulated period of record do not overtop the FEB emergency spillway, the FEB
	WRDA 2000, and include additional flood control	emergency spillway design details, including discharge location, were not further
	features as necessary to avoid a reduction in	considered during the CEPP Savings Clause evaluation of the TSP.
	existing levels of flood protection in the EAA.	
		However, a more detailed flood routing using the seepage collection system
		(including the A-1 and A-2 seepage canals) will be conducted during PED to ensure
		there will be no additional adverse impacts to adjacent agricultural lands. During PED,
		the seepage system will be refined to ensure sufficient capacity to capture any
		additional discharges. It is anticipated that if necessary, water will be routed through
		the S-8 pump station for discharge into the Miami Canal, as it currently serves as a

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		flood control structure today. The PED phase will be conducted following completion of the Final PIR and, most likely, following Congressional authorization of CEPP.
CRYSTALS-29	6. Changes to Overall Comprehensive Everglades Restoration Plan In previous letters, we have commented that the	Section 6.9.8 "CERP Comparison to CEPP" has been added to the PIR and includes comparison of the CEPP plan to the relevant CERP Project components as presented in the Final Integrated Feasibility Report and Programmatic Environmental Impact
	Corps is proposing significant changes to the Comprehensive Everglades Restoration Plan, and that it should prepare a Comprehensive Plan Modification Report instead of a PIR. The	Statement dated April 1, 1999 along with cost and scope changes. Implementation of CEPP would not preclude implementation of other components of the 1999 Plan that was intended to serve as a framework.
	Programmatic Regulations also require PIR's to "I'linclude a discussion of any significant changes in cox for scope of the project from that presented in the 'Final Interrated Fasibility Report and	Section 6.9.2 has been updated to explicitly clarify that Improvements in water supply for LOSA will need to be considered in future increments of CERP that provide additional storage for capturing water currently being sent to tide from Lake Oxeechobee or other sources, thereby, increasine water made available in the
	Programmatic Environmental Impact Statement, dated April I, 1999" ("1999 Approved CERP Plan"). 33 CFR § 385.2(a)(3)(xiii). The Draft PIR/EIS fails to do that, and should be revised to discuss the simificant chanes proposed for the CERP.	regional system for other water related needs. The CEPP Recommended Plan A-2 FEB does not preclude future increments of CERP planning for additional storage in the EAA to provide additional water supply deliveries for either agricultural irrigation or the environment.
	The Corps has identified as being part of the CEPP six projects contained in the 1999 Approved CERP Plan, including the "Everglades Agricultural Storage Reservoir (G)." App. C.3 (response to Crystals-2). The 1999 Approved CERP Plan called for that reservoir to have three compartments, one of	Section 6.8.6 and Annex B will clarify that the additional water made available in LECSA 2 and LECSA 3 will be available for municipal, industrial and agricultural users.
	which "will be used to meet Everglades Agricultural Area irrigation demands only," one which would be "used to meet environmental demands," and the third to meet both environmental and irrigation demands. 1999 Approved CRRP Plan, p. 9-9. This was one of the primary means by which the CRRP proposed to improve water supply for agricultural	
	users, which is one of the basic purposes of the CERP. Fla. \$173.470(3)(b)(2) (State approval of the CERP, which includes among the purposes "meet the other water-related needs of the region, including enhancement of water supplies").	
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	In the proposed CEPP plan, the agricultural water supply function of the EAA reservoir has been completely eliminated. However, we found no acknowledgement of this fact in the Draft PIR/EIS, much less," a discussion of any significant changes of the project from that presented in the [1999 Approved CERP Plan!" The PIR/EIS needs to explain why the Corps is eliminating improvements to agricultural water supply in the CEPP. This is especially important since the Corps has refused to modify the Lake Okeechobee. The proposed CEPP plan also includes some, but not all, features for the Central Everglades which were identified in the 1999 Approved CERP Plan. In our previous comment letters, we pointed out how the CEPP leaves out some projects identified in the 1999 Approved CERP Plan, which suggests that the Corps no longer intends to implement them. See, e.g., App. C.3, p. 723. The history of the C&SF Project is littered with examples of projects authorized by Congress which the Corps never fully implementation of the plan components," id. p. 685, does not relieve the Corps from explaining whether these project elements of the 1999 Approved CERP Plan neamin viable or not. The final PIR/EIS should explain fully what the overall CERP Plan looks like after the CEPP is implemented.	
CRYSTALS-30	7. Lack of Consideration of Alternatives Federal law requires the Corps to consider a range of alternative plans in evaluating a proposed	A full array of reasonable alternatives was considered. The CEPP planning effort did consider the relevant projects as described in the 1999 Approved Plan (CERP) as discussed in Section 3.4 and Section 6.10
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action, so that agency officials and the public can clearly understand the choices being made. 40 CFR §§ 1500.2(e), 1502.14. The Programmatic Regulations also require the Corps and SFWIMD to CERP Plan | shall be included as one of the alternative plans that is evaluated." 33 CFR § and for CERP projects being considered in a PIR, 'the project as described in the [1999 Approved 'formulate and evaluate alternative plans" in a PIR, 385.26(b)(2).

concerns that the Corps is building an nappropriate bias into the CEPP study related to only considering alternatives that it prefers, and that it is refusing to highlight the tradeoffs single alternative in the EAA-a Flow Equalization alternatives north of the "redline," which is the 3. In our previous comment letters, we suggested including modifications to the Lake Okeechobee Regulation Schedule; routing of the "new" lake Wildlife Management Areas on the way to the WCAs; and use of the Flow Equalization Basin sites as a deep reservoir or ST A. We also expressed water levels in Lake Okeechobee, that the Corps is between different environmental and economic interests inherent in the Corps' formulation of alternatives. The Corps has completely ignored these comments, The Draft PIR/EIS only considers a Basin-which the document admits will "represent an irreversible and irretrievable commitment of Draft PIRIEIS does not consider any boundary between the EAA and WCA-2 and WCAwater through the Holey Land and Rotenberger resources." § 6.3.6, p. 6-30. The Draft PIR/EIS also several alternatives that could be considered,

provide an initial increment of restoration for the central everglades ecosystem. It was recognized in the 1999 Approved Plan (CERP) that implementation would require consider reasonable alternatives to a proposed | Consistent with the other planning efforts conducted to date on CERP components, the CEPP effort was purposefully focused on the components of CERP that would that the plan be divided into smaller implementable packages of components. It was further recognized that an adaptive assessment strategy requires incremental implementation of the plan components and each increment would be planned and designed to carry the program one step closer to the ultimate goal of ecosystem restoration (Central and Southern Florida Project Comprehensive Review Study, Final Feasibility Report and PEIS, page 10-7).

demands by storing excess EAA runoff. Compartment II was envisioned to capture identified in the initially authorized CERP project. CEPP proposes to implement this ft of storage by capturing Lake Okeechobee regulatory releases. Operated in conjunction with the State Restoration Strategies' FEB on the A-1 footprint, an As initially authorized in WRDA 2000, the CERP EAA Storage Reservoir --Phase I included two conceptual 20,000-acre compartments capable of storing up to 120,000 ac-ft each. Compartment I was to be used to meet EAA agricultural irrigation both Lake Okeechobee regulatory releases and Compartment I overflow and served to supply environmental water deliveries to the Water Conservation Areas. The CEPP PIR is recommending authorization of a portion of the Compartment 2 functions component by constructing an approximately 14,000-acre FEB on the A-2 footprint with a maximum storage depth of 4 feet that would provide approximately 60,000 acadditional 210,000 acre-feet of water will be delivered to Water Conservation Area 3A on an average annual basis.

Phosphorus concentrations of inflows; consequently, given consideration of water During CEPP plan formulation and screening, multiple configurations of storage and treatment options were examined, ranging from STAs to 12-foot deep reservoirs. The and the release capabilities of reservoirs in the EAA are directly related to the requirement to meet state water quality standards for water delivered to the Water Conservation Areas. The screening evaluations led to the conclusion that deeper reservoirs are initially able to capture more water but do not offer the limited water quality treatment capabilities of an FEB, thereby reducing their amount of effective storage. FEBs supplement the treatment efficiency of STAs by reducing the amount of effective storage in a reservoir is dependent upon its release capabilities,

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	explicitly states that it is will not comply with NEPA regarding revisions to LORS 2008 until some undisclosed later date. Annex C, § 7.1.1, p. C-30. This violates both NEPA and the Programmatic.	quality treatment requirements, FEBs were able to provide downstream water deliveries more efficiently and at substantially less cost than deeper reservoirs. Therefore, FEB storage components on the A-1 (CEPP) and A-2 footprints (State Restoration Strategies) were recommended as a component of all CEPP final array.
	Regulations,	alternatives.
	The Corps also has refused to evaluate as an	The CEPP Recommended Plan A-2 FEB does not preclude future increments of CERP
	arternative the relevant projects of the 1999 Approved CERP Plan itself, in particular, the Draft	planning for additional storage in the EAA to provide additional water supply deliveries for either agricultural irrigation or the environmental. For example, the A-2
	PIRIEIS does not consider as an alternative the "Everglades Agricultural Storage Reservoir (G)"	FEB could be converted to an STA and/or deeper reservoir that works in conjunction with the State's existing STA system to accommodate any future upstream storage to
	project from the 1999 Approved CERP Plan. This clearly violates the Programmatic Regulations,	further increase water deliveries to the Water Conservation Areas, and/or the CERP EAA — Phase I Component I storage functions could be implemented. CEPP is not
	which the Corps itself has stated "make clear that	seeking the deauthorization of the CERP EAA Reservoir Phase — I, recognizing that improvements in under county for the LOSA will need to be considered in future
	Integrated Feasibility Report and Programmatic	increments of CERP that provide additional storage for capturing water currently
	Environmental Impact Statement,' will be one of	being sent to tide from Lake Okeechobee or other sources. Future CERP increments
	the alternative plans that will be evaluated." Programmatic Regulations Final Rule, 68 Fed. Reg.	that provide this additional storage will increase water made available in the regional system for other water related needs.
	64200, 64218 (Nov. 12, 2003).	
	We recommend that the Corps revise the PIRIE IS	Inclusion of structural and operational modifications to existing infrastructure and/or construction of new features in Holevland and Rotenberger WIMA was considered
	to consider a range of reasonable alternatives	during initial plan formulation efforts for the CEPP (refer to Appendix E for details).
	north of the "redline" as required by NEP A and the	Features within the WMA were not further pursued given water quality concerns
	the Corps can achieve the goals of the CEPP	expressed by many stakenoiders.
	more quickly and much more cheaply through	
DOWATE CITIZENS	some of the alternatives we suggested.	
Jack Moller(JM) 1	Jack Moller(JM) Letter dated September 13, 2013	
JM 1	The following pictures are of a levee in Katy TX that is about 24 feet high, creates a catchment bond for	Thank you for the information. The proposed weir features (passive structures) would be a sientificant project change requiring reformulation, revised modeling, and a
	urban run off before the water goes into the	revised assessment of effects under NEPA, and the inclusion of passive weirs on L-67A
	Buffalo Bayou. The grates on this weir are required	would increase the L-67D (Blue Shanty Levee) project footprint and associated cost.
	A. By leaving out the grates fish, gators and other	and will not be further considered during future CEP implementation.
	widiite could freely swim between units. The	structures, such as the gated culverts along L-b/A included in the CEPP

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The design criteria for the project would follow the performance criteria established by the Sustainable Commission: 1) the uplands and hardwoods in the Everglades, which includes the Water Conservation Areas as well as ENP, would not be harmed, 2) over draining of the Water Conservation Areas would not happen, 3) as much water as possible would freely flow into ENP. These weirs could be placed for the entire length of that part of L 67-A which is on the northern boundary of the Blue Shark Flow Way and would be blue would be placed for the conservation of the place shark flow the conservation of the place shark flow the conservation of the place shark flow the conservation of the place shark flow the conservation of the conservation of the place shark flow the conservation of the conservation of the place shark flow the conservation of the conservation of the place shark flow the conservation of the conservation of the place shark flow the conservation of the conservation of the place shark flow the conservation of the conservation of the place shark flow the conservation of the place shark flow the conservation of the place shark flow the place shark flow the place shark flow the conservation of the place shark flow the place	. Σ. Σ. Σ. Σ. Σ. Σ. Σ. Σ. Σ. Σ. Σ. Σ. Σ. Σ.	WMD folks raised concerns about heavy inpment crossing weirs. As one can see, heavy inpment crosses the photographed weir. This ir is designed to hold back about 18 inches of ter before it freely flows into the Buffalo Bayou.	Recommended Plan, are required to most effectively address: adaptive management flexibility and system uncertainties (the WCA-3A regulation schedule varies seasonally, whereas passive weir elevations are most likely predetermined and static); water quality considerations and constraints; T&E species considerations within WCA-3A and ENP, including flexibility for management of recession/ascension rate targets; and surface water velocity considerations within the flowway. Further, the CEP modeling and preliminary DDOM recognize that the only anticipated operational constraint for the proposed controllable L-63 structures within the Blue Shanty Flowway (5-632 and 5-633) would be the 9.7 feet NGVD maximum stage elevation for the L-29 Canal based on the planned DOI TINS famiami Trail roadway modifications, and this same constraint would equally apply under a passive weir scenario.
The design criteria for the project would follow the performance criteria established by the Sustainable Commission: 1) the uplands and hardwoods in the Everglades, which includes the Water Conservation Areas as well as ENP, would not be harmed, 2) over draining of the Water Conservation Areas would not happen, 3) as much water as possible would freely flow into ENP. These wells could be placed for the entire length of that part of L 67-A which is on the northern boundary of the Blue Shanty Flow Way and would be blow under the place of the place shant flow way and would be blow under the place of the place shant flow way and would be placed for the conserved outlined blow under the place of the place shant flow way and would be placed for the place shant flow way and would be placed for the place shant flow would be placed.			The CEPP Recommended Plan does not preclude future increments of CERP planning for increased hydrological connectivity between WCA 3A and WCA 3B, including potential consideration of passive weli components and other associated additional infrastructure, consistent with features included in the original CERP Recommended Plan. Final design details of CEPP infrastructure, and how it would interface with operations and existing infrastructure, will be determined in the future as adaptive management, Pre-Construction Engineering and Design (PED), and other information becomes available for this area.
These weirs could be placed for the entire length of that part of L 67-A which is on the northern boundary of the Blue Sharty Flow Way and would colour grayers for the pure should be accommended.		e design criteria for the project would follow the formance certrieria established by the Sustanable mmission: 1) the uplands and hardwoods in the reglades, which includes the Water Conservation ass as well as RNP, would not be harmed, 2) over animing of the Water Conservation Areas would thappen, 3) as much water as possible would ely flow into ENP.	See response to JM 1.
		These weirs could be placed for the entire length of that part of L 67-A which is on the northern boundary of the Blue Shanty Flow Way and would allow water to flow through the removed portion of the L-29 into the C-29 unimpeded and into ENP through the new bridges.	See response to JM 1.
JM4 The topography from L-5 to L 67-A is known, the See response to JM 1.		e topography from L-5 to L 67-A is known, the	See response to JM 1.

Appendix C.3

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	east-west topography of WCA3A is known, the number of arcr-feet of water being pushed into WCA3A is known, the average ET is known, the high and low average rain fall factors are known, therefore the engineers can design the L67-A with as many weirs, as hig or little and with their flow set at the appropriate height from the ground level of WCA3 so that the out come would meet the design criteria stated above.	
JM 4	The commenter provided several pages of	Overall, the topics and concerns described by the commenter were extensively
evaluation of	concerns with descriptions to support the	considered during CEPP planning. Consideration of these factors were undertaken
Landscapes	concerns. The paraphrased points below are	extensively during planning. The planning considerations included the following, and
of the	species, locations, water depths, and historic	ובובאמוון ביון אבריוחון מוב ווארבתי
edrainage	references can be found in the original comment	 CEPP will not send historic water volumes to the Everglades. CEPP will send less
Everglades in	letter.	than the water volume envisioned in CERP. This is described in Section 1, pgs 1-
13-Sep-2013		7.
comment	 The CEPP plan does not give enough 	 For over ten years the CERP interagency science group, RECOVER, has developed
	consideration to species in the Everglades that	modeling tools to forecast restoration performance. These tools, called
submitted to	require dry ground, or recognize that these	performance measures, were developed, reviewed, and approved by the 10
COL Dodd.	species were part of the historic ecosystem. He	agencies and both Tribes of CERP and underwent public review. They were used
	explains that if historic volumes of water are	significantly as guiding tools in CEPP planning to inform the CEPP team which
	sent to today's Everglades then water levels	alternate plans would best restore and protect the natural features of the
	will be detrimentally high because the area of	Everglades. The features of key interest in the greater Everglades were ridges
	today's Everglades is much less than its historic	and sloughs, tree islands, soil (and therefore topography), vegetation, and water
	expanse, and that this will be very harmful to	distribution and timing. The use of these tools, and their wide acceptance
	the species that need dry ground.	among CERP the science community engaged in CERP, shows that the features of
	 The CEPP plan does not have enough 	concern to the commenter were very significant factors that influenced and
	consideration of the undulating landscape of	guided CEPP planning. The performance measures are listed in PIR Section 4.2.2
	the Everglades, and the fact that some of the	and described in more detail in Appendix G.
	undulation has been lost since drainage. Given	 The CEPP plan recognizes that regions of the Everglades have changed in
	elevation losses, water added to the landscape	response to drainage. Therefore the CEPP plan will add restoration water to the
	by CEPP could cover land that is currently	Everglades incrementally. The water volumes will be increased slowly, over
	higher ground that is not as high as it was	approximately two decades, giving the ecosystem time to adjust to the partially
	historically and therefore cannot stay dry	restored water volumes. As water is added monitoring will repeatedly check
	when water volumes are increased.	health of ecosystem features including tree islands, mammals, sawgrass, reptiles,
	 The commenter suggests that a 3-foot water 	and other indicators of ecological diversity and health in the Everglades. The

Information
Correspondence
Pertinent

Appendix C.3

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	depth is a goal of CEPP, and discusses the	incremental addition of water is described in Section 6.7 pgs 37-42. The
	issues that this depth may cause.	monitoring is summarized in the same paragraphs and in more detail in the
		Adaptive Management Plan (Annex D Part 1) and the Ecological Monitoring Plan
		(Annex D Part 4). The Adaptive Management Plan contains a section on
		Implementation of Adaptive Management that describes how the monitoring
		data will be provided as feedback to decision makers as CEPP proceeds toward
		completion (Annex D Part 1.4). The feedback will give decision makers
		opportunities to make adjustments, should CEPP start to have unintended
		consequences such as those described.
		 The water sent to the Everglades is not intended to be held in the Everglades,
		which would cause water levels to rise. Rather, the CEPP TSP includes significant
		features to move water through the Everglades. Water moving through the
		ecosystem, or flow, is essential for restoration of the historic undulated
		topography and for remaining within the desired water levels. This is described
		in Section 1.2.1.2 pgs 6-9 on problems and opportunities in WCA 3A and Section
		1.2.1.3 pgs 9-10 on problems and opportunities in Everglades National Park.
		The importance of flow through the Everglades is captured in the CEPP Project
		Objective, "Restore more natural water level responses to rainfall to promote
		plant and animal diversity and habitat function" (Section 1.3, Table 1-2, pg 11).
		The intent of this Objective is to restore and protect the diverse elevations and
		habitats of the Everglades.
		 The commenter noted that in Section 1.2, page 5, the historic ecosystem was
		described in error as "uniform". This error has been removed. The planning team
		recognizes that the historic system topography undulated and was diverse, with
		higher and lower areas. Description of the loss of historic elevation is provided in
		Section 1.2.1.2 on problems and opportunities in Water Conservation Area 3A, in
		Figure 1-4, and in Figure 1-6.
		 It is important to recognize that ridges, sloughs, and tree islands still exist in the
		Everglades despite elevation losses. The water depth targets are targeted for the
		deepest sloughs; these are not targets for high ground such as tree islands. The
		planning team understands that historically tree islands, ridges, and sloughs co-
		existed in the landscape. CEPP will provide an increment of hydrologic
		restoration to restore this topographical diversity.
(GS) mich Brand	Green Braum (GBV) office district October 25, 2012	
Greg braun (GD)		
1-8-1	Ine above-average discharges from Lake	from Lake The Recommended Plan addresses the need to restore ecosystem function in the

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Okeechobee into the St. Lucie River Estuary and Caloosahatchee River that have occurred during 2013 have opened the eyes of many people who were previously unaware of the recurring impacts that result from the input of poor-quality water that originates far outside the natural boundary of our watersheds. The ecological impacts of the imbalance of water quality, water quantity and timing that had formerly been known primary by environmental activists has now spread to a much broader segment of the population due to the ensuing impacts on our economy.	Northern Estuaries by reducing the number and severity of events where harmful amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
	Along with many other residents of the communities that surround the St. Lucie and caloosahatchee Rivers, I recognize that full authorization, funding, implementation and completion of CEPP will address less than 20% of the Lake Okeechobee discharges and that we won't see much positive effect from CEPP for at least ten years. Anything that the Cops can do to move more water toward the south and in a quicker time frame would be much appreciated, particularly by those of us who have voluntarily taxed ourselves to move forward expeditiously with the IRL-South and other projects. I have reviewed the Draft PIR and its appendices and offer the following comments for	
	consideration by the CEPP team:	
GB-2	Lonson's Seagrass. I do not agree that the Corps has fully described the adverse impacts on Holophila johnson! and its designated Critical Habitat that result from the existing system. As an ecologist who has conducted seagrass surveys.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where harmful amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	in the Indian River Lagoon and Lake Worth	unnatural changes in salinity that are extremely detrimental to estuarine
	Lagoon for more than ten years, I have seen first-	communities.
	hand the impacts that elevated Lake Okeechobee	
	discharges have had on the presence,	A no effect determination was made in the Biological Assessment for Johnson's
	distribution and vitality of Johnson's seagrass,	Seagrass. Comparing Alt 4R2 to FWO shows improvements to Johnson's seagrass due
	both Within designated Critical Habitat areas	to CEPP. The Biological Opinion from the National Infarine Fisheries Service (NIVIES)
	Discharges have resulted in quantifiable	will be included in the fillal PINCES. The PWO includes C-43 and Inc. 3 which will reduce the high discharge events to the Northern Estuaries. The project
	reductions of this species. The PIR should more	dependencies are included in the Implementation Plan in Section 6 of the Draft
	directly attribute these re-occurring losses of	PIR/EIS.
	endangered species and Essential Fish Habitat to	
	the discharges that result from the existing	
	federally-constructed plumbing system, rather	
	than indicate that they are the result "of	
	hurricanes".	
	Implementation of the preferred CEPP alternative	
	may reduce adverse impacts to Johnson's	
	seagrass, but re-design of the system to further	
	reduce the discharges through the C-44, C-51	
	would further reduce the adverse impacts.	
GB-3	2) Wood Storks and other state-listed and	Hydrologic changes associated with implementation of Alt 4R2 are expected to alter
	federally-listed wading birds. Having conducted	and provide an overall net benefit for wood stork foraging suitability throughout WCA
	avian monitoring at various locations within the	3 and ENP. Although wood stork colonies are not currently in all of the areas where
	Greater Everglades Ecosystem boundary, I must	foraging and habitat suitability are increasing, the potential for wood storks to
	also disagree with the assumptions of impacts to	colonize these areas highly increases due to the increase in foraging and habitat
	this species and several other state- listed species	suitability. Declines in foraging suitability do occur in northern ENP due to increased
	of wading birds (e.g., herons, egrets).	flow deliveries through the Blue Shanty flowway. Declines in foraging suitability were
		also observed in southern WCA 3A. Wood stork colonies have been identified to
	It is the cumulative loss of varying-hydroperiod	occur within these areas and may be affected by decreased foraging opportunities
	wetlands within the Greater Everglades	and habitat suitability within these locations. Metrics would need to be developed
	Ecosystem that has led to the abandonment of	prior to CEPP implementation to account for any changes in the system due to
	historic nesting colonies and their movement to	construction and operation of other features, such as Modified Water Deliveries to
	more coastal colonies. Undertaking	ENP. Based upon the current information, the Corps' determination is that CEPP may
	hydrologic restoration projects north of Lake	affect wood stork and is thus requesting early consultation under ESA for this species.
	Okeechobee and creation of more sparsely-	
	vegetated shallow-water wetlands in areas of	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	south of the Lake, including within areas of the existing Everglades Agricultural Area would benefit this species. Intermittently heavy Lake Okeechobee discharges through the C-44 have resulted in adverse impacts to wading birds and their nesting colonies, a situation that is exacerbated when fresh water discharges result in losses of seagrass and submerged aquatic vegetation around wood stork nest colonies (e.g., at Martin County's Bird Island (aka MC-2).	
GB-4	The PIR may accurately consider and address the potential impacts and benefits of the various CEPP alternatives when compared to one another, but it appears to lack acknowledgment of the adverse ecological and economic impacts that the existing system is having on the coastal estuaries. Although I do not wish to in any way slow down the continuation of the CEPP process, acknowledgment of these additional impacts may be helpful in substantiating the need to allow more water to flow south.	The existing conditions and the current impacts to the coastal estuaries are documented in Section 2 and Appendix C.1 of the Draft PIR/EIS. The comparisons of the alternatives in Section 5 and Appendix C.2 show the impacts of the existing system compared to the future without CEPP.
John Rosier (JR) L	John Rosier (JR) Letter dated October 15, 2013	
JR 1	Hopefully these comments get through in time. My name is John Rosier and am currently the President of the Evergiades Coordinating Council and The Fulltrack Conservation Club of Dade County. I represent a large number of sportsmen who regularly use the area that CEPP will affect. First I would like to say that the expedited process that was used for this project was excellent. The public input and interaction with project managers and planners was fruitful and I can say that that we fellow sportsmen feel that our input was taken	Hopefully these comments get through in time. My Thank you for your comment regarding the Civil Works Program - Pilot Study name is John Rosier and am currently the President Implementation. This study process continues to use quality planning practices and is for the Everglades. Coordinating Council and The intended to increase public participation, broaden public input and shorten the intended County. I timeframe for completion of a pre-authorization (planning) study regularly use the area that CEPP will affect. In timeframe for completion of a pre-authorization (planning) study are sevellent. The public input and intenaction with project managers and planners was fruitful and I can say that my fellow sportsmen feel that our input was taken
	seriously and with productive results. I would hope	

April 2014

April 2014
April 2014

CEPP Final PIR and EIS

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	that this is a model for future projects.	
JR 2	On to the plan. We sportsmen have endorsed the	In general, with implementation of Alt 4R2, water levels in Northwest and North
	plan because we see first hand the destruction that	Central WCA-3A are predicted by the period of record modeling results to remain
	high water and dry outs that occur in the area have	above ground surface throughout the year to reduce continued soil oxidation and
	done. The only problem that we have is with the	invasion of woody vegetation, significantly reduce the susceptibility of that area to
	modeling results that show higher water in the	risk of muck fire and beginning to restore the ridge and slough landscape that was
	area throughout the year. Depth and duration of	evident in the western portion of this area in the 1940s. Water levels in the
	water is the most important issue to us since we	northeastern portion of WCA-3A are predicted by the POR modeling to remain
	have tried to show that these factors will cause	conducive to maintaining the sawgrass plains in this area that were also evident in
	further destruction of habitat in Area 3. We feel	the 1940s Central WCA-3A will remain similar to today's condition, and water levels
	that these problems can be controlled during the	and durations in southern WCA 3A will be slightly reduced due to the increased outlet
	operation stage with a water regulation schedule	capacity (to WCA-3B and the expanded S-333) included in Alt 4R2.
	that factors in the appropriate water depth and	
	duration. If you want a prime example of high	An analysis of the hydrologic benefits of CEPP indicates that key indicators of
	water destruction, look at Area 2B.	Everglades restoration will improve significantly with the TSP. It is predicted that
		with implementation of the TSP, that the largest percent gains in daily average fish
	The water and depth issue also affects the	density would occur within northern WCA 3A and NESRS due to rehydration. The fish
	population of fur bearing animals in the area. If	tools used in CEPP showed that in these areas, fish densities often increased in excess
	the water is too high, habitat will be lost and	of 20%, with extremes of over 50%, however decreases in fish density, or negligible
	their food source will gone. Also affected will be	changes (3%), were predicted in the area of WCA 3A along the L-67 A canal. An
	the wading bird population. If the water is too	increase in density of small fishes will directly benefit higher trophic level predators
	high, there will be no wading birds.	such as wading birds. Therefore, it is predicted that the TSP will also provide a
	0	moderate beneficial effect for wading birds. Wood stork species distribution was
		modeled by Beerens (2013) and indicates that wood storks would more frequently
		use areas of northern WCA 3A, WCA 3B, and southern ENP under the TSP compared
		to the existing conditions and FWO. Wading bird use is predicted to increase for
		wood stork colonies previously and/or currently located within WCA 3B (3B Mud
		East), along Tamiami Trail (Tamiami Trail East 1, Tamiami Trail East 2, and Tamiami
		Trail West), and for several colonies located in ENP (Grossman West, Rookery Branch)
		for the TSP relative to existing conditions and FWO. Wading bird use is predicted to
		remain stable or decrease for several colonies located in southern WCA 3A adjacent
		to L-28 (Crossover, Jetport, Jetport South, Hidden) for the TSP relative to existing
		conditions and FWO; however there is potential for these wood stork colonies to
		utilize adjacent areas where foraging and habitat suitability are increasing.
JR3	Next is the implementation schedule. We feel that	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been
	construction should start on the south end since	edited since the release of the Draft PIR/EIS for public review on August 29th, 2013.

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	we currently are in a high water situation for the second year in a row. Immediate results would be realized and we would get a good idea how the water would flow into ENP. We currently can put a lot of water into Area 3 with the infrastructure that's in place now. ENP is in need of water now to stop further destruction of the eastern end.	Project features are grouped into three separate PPAs based upon the spatial distribution of the project features and the locations within the CEPP study area where separable hydrologic and environmental benefits would accrue. These groupings include a PPA of project features in northern WCA 3A, (PPA North), and a final PPA which provides the new water and required seepage management features that benefits the enritery of the study area (PPA New March.) The Final PIP(E)s presents two entirety of the study area (PPA New Water). The Final PIP(E)s presents two potential implementation sequencing scenarios that are possible with the three separate PPAs currently identified: 1) PPA North → PPA South → PPA New Water and 2) PPA South → PPA North → PPA New Water. With each scenario, non-CEPP project features and non-CEPP project features identified as project dependencies in Table 6–10 of the Draft PIP(E)s still apply.
		The features mentioned in the provided comment have been included in PPA South.
		Other viable options for the implementation of project features and subsequent groupings into PPAs may be considered in the future and is acknowledged within the Final PIR/EIs. The implementing agencies are committed to engaging in a public process after Congressional authorization and appropriations of CEPP to integrate CEPP into the CERP Master Implementation Sequencing Plan that defines the order in which CERP projects would be planned, designed, and constructed.
JR 4	Water quality issues also need to be addressed.	Thank you for your comment. The CEPP plan is intended to address the sheet flow
	The park has stringent standards which may need to modified to ensure a sheetflow process to	and ponding issues mentioned in this comment.
	occur. We don't need the continued ponding of	
	water in Area 3 due to the park refusing water,	
	water they can get.	
JR 5	And finally, We sportsmen consider Area3 more everglades-like than the area that this project	Thank you for your comment.
	wants to improve. I say improve because the	
	restoration moniker has been put on this project.	
	Restore means putting back to original, and we	
	know that the Everglades as we knew back in the	
	1800's will never be attainable. Let's take the	
	habitat we have created and improve it. Let's not destroy one habitat to try and bring back another	
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CORPS RESPONSE

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	one that will never be like the original.	
Eric Kimmel (EK)	Eric Kimmel (EK) Letter dated October 15, 2013	
EK-1	I would like to enter the booklet with some of Tom	The booklet has been included in the public record. The water level changes
	Shirley's information and viewpoints regarding our	anticipated with implementation of Alt 4R2 are conducive to restoring a portion of
	Everglades Eco-System into the comments for	the wetland hydrology that was lost as a result of the drainage effects from the
	CEPP as we11 as my concerns that from the way I	construction of the Miami Canal through the marsh in northern WCA-3A. Details
	understand the alternatives to choose from I do	regarding the expected water level changes can be found in Section 5 and 6 and
	not see anything in them that would protect the	Appendix C.2.1 and C.2.2.
	system from extended natural hydro- periods or	
	the increased depth of waters held.	
EK-2	We want everyone to understand that putting	The objectives of CEPP to enhance ecological values include to restore seasonal
	more water into the WCAs, 15,000 acre feet more,	hydroperiods and distribution, to improve sheetflow patterns and surface water
	causing more ponding and flooding of the	depths and durations, and to restore more natural water level responses to rainfall
	Everglades north of 41 is unacceptable,	(for additional detail, reference Section 01 of the CEPP PIR). CEPP alternative
		configurations were developed to reduce the drainage effects from Miami Canal in
	The explanation to Martha about why ALT4RI was	the northern portions of WCA 3A and restore more sheetflow across the northwest
	considered an ecological improvement while doing	portions of WCA 3A. The Miami Canal causes water levels in northern WCA 3A to
	more harm to the WCAs is not supportable.	recede well below the ground surface for long periods of time, which has resulted in
		extensive and documented losses of peat soils from oxidation and muck fires and
	I agree having witnessed first hand the harm done	resultant lowering of the ground surface elevations in northern WCA 3A by up to 3-ft
	by the previous and existing water management	in some areas. Alt 4R2 proposes to reverse the continued degradation of this area by
	practices by the principle agencies.	backfilling a portion of the Miami canal north of I-75 to remove its drainage effects,
		re-distributing inflows through removal of approximately 2.9 miles of the south L-4
		levee and increasing water flow into WCA 3A during the dry season. Water levels and
		durations within WCA 3A and 3B will vary across the landscape and from year-to-year
		if Alt4R2 were implemented, consistent with the variability in rainfall, hydrologic
		1, WCA 2). Generally, water levels in northern WCA-3A will stay above ground
		surface for longer and the depth and duration of the wet-season water levels will
		increase.
		The water level changes anticipated with implementation of Alt 4R2 are conducive to
		restoring a portion of the wetland hydrology that was lost as a result of the drainage
		effects from the construction of the Miami Canal through the marsh in northern
		WCA-3A. Details regarding the expected water level changes can be found in Section
		5 and 6 and Appendix C.2.1 and C.2.2.
Herman Granek	Herman Granek (HG) Letter dated October 9, 2013	
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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
HG-1	The Obama administration is inadvertently allowing federal funding in the Central Everglades Planning Project to be manipulated and used for mitigation by SFWMD that will result in destruction of the beautiful and treasured coastline of Miami-Dade County's Biscavne Bay and its endangered and almost extinct species, as a price for and in favor of restoring with minor impact on the Florida Everglades.	These issues are not related to the actions under consideration for CEPP.
Larry Fink (LF) Le	Larry Fink (LF) Letter dated November 1, 2013	
LF.1	In summary, the TSP/PA and the project-specific PIR/EIs for the TSP/PA are critically deficient, because the process used to develop, screen, and select Everglades restoration project alternatives is administratively, legally, and technically fatally flawed.	The process used to identify management measures, screen these measures and identify alternatives, and subsequently analyze alternatives has gone through extensive technical review through both internal and external to the USACE and Non-federal sponsor review processes. The PIR documents the screening process in Section 3, 4 and in appendix E. The models used were certified for use on the study, and the performance measures used were approved through the RECOVER process.
LF-2	(1) It is administratively fatally flawed, because the project-specific PIREIs should have been preceded by a revised Programmatic EIS (PEIS) for CERP that considers the broader implications of the changes in the approach to and environmental impacts of CERP as a result of CEPP, including changes to the assumptions, approximations, interpolations, and extrapolations upon which the environmental impact assessment in previous PEISs and project-specific PIRS/EISs were based.	The Corps CEPP PIR/EIS properly tiers off the CERP programmatic EIS and specifically identifies changes in circumstances and assumptions relevant to its analysis of CEPP. The Corps PIR complies with NEPA.
LF-3	(2) It is legally fatally flawed, because it is a violation of the following laws, regulations, standards, or practices: (a) Clean Water Act (CWA), because it makes a Water Quality Standards compliance distinction between impacted and unimpacted areas in the same water body, thereby implicitly granting a permanent variance from WQS in already impacted areas, neither of which is provided for in the CWA.	References to water quality impacts to "un-impacted" areas have been removed from the document per the recommendation of the USEPA.
LF-4	(b) Endangered Species Act, because the excess methylmercury production, bioaccumulation, and	The United States Environmental Protection Agency (USEPA) has established that a concentration of Hg in fish tissue in excess of 0.3 mg/Kg is an impairment of water

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	risk caused by routing inadequately treated high- sulfate EAA runoff to the Everglades represents a toxicological barrier to access and ude by fish- eating wildlife and their predators, including the endangered wood stork, bald eagle, Everglades mink, and Florida panther, and, thus, constitutes an unlawful taking.	quality. The regional THg trends in bass do reveal frequent exceedances of USEPA guidance levels in the Everglades and elevated concentrations in wildlife, some of which includes state and federally listed endangered species. In response, Florida adopted a state and federally listed endangered species. In response, Florida adopted a state and federally listed endangered species in 2013 to protect public health based on fish consumption. This state program proposes achieving Hg target levels in fish tissue by reducing atmospheric Hg emissions by 86%, which may include reduction in emissions from sources in south Florida, statewide, other U.S. states, and even other countries. While sulfate does play a role in methylmercury production, its role in the Everglades mercury problem is highly variable and other factors such as dissolved organic matter, available mercury and food web interactions also play important roles.
LF-5	(c) creates an attractive nuisance, because it encourages growth and development in zones where the risk of loss of life, limb, and property is high a result of the rapidly failing Herbert Hoover Dike (HHD).	The CEPP plan does not encourage growth and development and rather maintains the existing level of service of the C&SF project to provide flood protection.
LF-6	(3) It is technically fatally flawed, because: (a) It omits critical selection criteria/performance measures, i.e., non-nutrient water quality constraints, light limitation and time-to-recovery.	The CEPP PIR used the latest peer reviewed, RECOVER approved performance measures in the evaluation of project alternatives.
LF-7	(b) It omits viable alternatives to the TSP, i.e., those that accelerate the time-to-recovery of nutrient-impacted areas by removing or stabilizing contaminated sediments or mechanical harvesting of rooted macrophytes growing in the contaminated sediments in Lake Okeechobee or the impacted Everglades.	The PIR/EIS analyzes a large array of management measures as can be noted in Appendix E. Management measures were selected that ensured both the objectives and constraints of the project were realized.
LF-8	(c) It omits known or reasonably anticipated significant adverse environmental impacts, including causing or contributing to: (i) the presence of toxic substances in toxic amounts, e.g., hydrogen sulfide and methylmercury, caused by routing high-sulfate EAA runoff to the Everglades; and/or (ii) the irretrievable commitment of resources, e.g., EAA peat soil oxidation, as a result of CEPP.	The PIR addresses the methylmercury and sulfate issue in Appendix C.1,

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	facilitating the continuation of the consumptive uses of water quantity and quality to grow EAA crops requiring predominantly drained conditions.	
F-9	(d) It evaluates stage-duration-frequency contours sing a water quantity model that is deficient in representation of resistance to flow and quantification of evapotranspiration, based on presentations made and papers published by the U.S. Geological Survey and the comments of various peer review panels, each of which are incorporated here by reference.	The RSM-BN and RSM-GL hydrologic models were reviewed through the USACE hydroulics, and Coastal Community of Practice (HHRC CoP) validation process for engineering software, as part of the CEPP project. The RSM (including RSM-BN and RSM-GL) models were both classified by the USACE HHRC CoP as "allowed for use" for South forida applications in August 2012. As documented in section 6.10.1.1 of the CEPP PIR (Hydrologic Simulation Tools), the validation reviews were conducted by qualified senior USACE engineers with support from technical experts, and USACE approval indicates that that software is technically/theoretically sound and approved for use by knowledgeable and trained staff for purposes consistent with the software's purposes and limitations. Additional details regarding the USACE software review process is purpose and instinations. Additional details regarding the USACE software review process is provided in Section A.8.1.1 of Appendix A.
LF-10	(e) It evaluates compliance with the phosphorus WQS using a water quality model that is deficient in representation, parameterization, calibration, and validation and that cannot model non-nutrient water quality compliance or impacts for nonconservative toxic substances, e.g., mercury.	The CEPP PIR addresses phosphorus because it is the central water quality concern within the everglades protection area. The CEPP PIR includes a discussion of toxic contaminants such as mercury; however, the presence of fish tissue mercury in toxic amounts is the unfortunante byproduct of natural and anthropogenic atmospheric deposits that are not within the control of the USACE or SFWMD. The project addresses mercury and other toxics through monitoring.
IF-11	(f) It did not include a rigorous quantitative uncertainty analysis regarding the probabilities of achieving and not achieving the water quantity, routing, and timing criteria and the probabilities of causing or not causing various adverse impacts, including but not limited to excess methylmercury production, bioaccumulation, and risks to exposed humans and fish-eating threatened or endangered vilidifie. The results of the qualitative and semi-quantitative approximations to a rigorous quantitative uncertainty analysis used by the modelers that were appended to the draft PIR/EIS are not sufficient in this regard.	The USACE and SFWMD used the most appropriate and currently available evaluation tools to analyze the project effects on nutrients and toxics. While the development of new tools and monitoring datasets might reduce project uncertainties to some extent, it would result in a multi-year project delay. The SFWMD and USACE determined that the existing modeling and analysis plan was sufficient for planning the CEPP project and that delaying the project to develop new analytical tools presented a greater risk to the environment than proceeding with the available tools.
LF-12	(g) It did not include an adequate margin of safety in the engineering design and adequate	The USACE and SFWIMD used the best available simulation tools to plan the CEPP. The CEPP evaluations do include assessment of the overall period-of-record (1965-

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	operational flexibility sufficient to compensate for the propagated uncertainties in the quantity, quality, timing, and routing of water under routine, extreme weather, and various failure modes, including a catastrophic failure of the Herbert Hoover Dike.	Modeling uncertainty and its implications to plan selection are addressed per USACE guidance in Section 6.10. The design detail of recommended plan components is addequate to determine feasibility and costs of the plan and appropriate cost contingencies have been applied. Such modifications to the existing C&SF Project provide added operational flexibility to the comprehensive and integrated water management system in south Florida. Further design of the recommended plan features will occur after authorization during the Planning, Engineering and Design phase. To date, the Jacksonville District has received between 20 to 25% of the National Dam Safety Construction budget for the Corps for rehabilitation of HHD and has been steadily working on HHD rehabilitation. The Corps has completed over 22 miles of secut-off wall and currently have 16 of the 32 culverts under contract for replacement or removal. The Dam Safety Modification Report is scheduled for completion in 2015 which will detail the remainder of the work necessary to complete rehabilitation the HHD. It would not be appropriate to consider a catastrophic failure of the HHD as part of this planning effort.
IF-13	As a consequence of these fatal administrative, legal, and technical flaws, individually and colocitively, the work products deriving from this process, including the TSP/PA and the PIRFIS for the TSP/PA, are themselves administratively, legally, and technically fatally flawed. To correct these serious errors of omission and commission and the consequences thereof, I recommend issuing a revised PEIS for CERP and a revised project-specific PIR/EIS for a new TSP/PA using water quantity and quality models developed by or for USACE, USGS, and/or USEPA evaluating the benefits and detriments associated with a modification of Alternative 6 which proposes a breaching the Herbert Hoover Dike (HHD) surrounding Lake Okechobee and a spillway/flowway to spread and noute that flow into the upper portions of Remnant Impounded Everglades. This	The USACE respectfully disagrees with your assessment of analyses conducted during this planning effort and the resultant work products. The modeling tools and other technical and scientific information utilized are the best available and have undergone peer review within the USACE and certified for use and have also undergone peer review within the USACE and certified for use and have also undergone independent external peer review. The RSM-BN and RSM-GL hydrologic models and the DMSTA water quality model were reviewed through the USACE Hydrology, Hydraulics, and Coastal Community of Practice (HH&C CoP) validation process for engineering software, as part of the CEPP project. The RSM (including RSM-BN and RSM-GL) and DMSTA models were both classified by the USACE HH&C CoP as "allowed for use" for South Florida applications in August 2012 and January 2013, respectively, As documented in section 6.10.1.1 of the CEPP PIR (Hydrologic Simulation Tools), the validation reviews were conducted by qualified senior USACE engineers with support from technical experts, and USACE approved indicates that that software is technically/theoretically sound and approved for use but knowledgeable and trained staff for purposes consistent with the software's purposes and limitations. Additional details regarding the USACE software review process is provided in Section A.B.1.1 of Appendix A.

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	will allow a more natural quantity, quality, timing, and routing of flow than the present TSP/PA, while	The concept of a "flowway" or broad shallow marsh area that is used to flow water
	reducing the flood risk from dike collapse and the	freely through a spillway from Lake Okeechobee to one or more of the WCAs was
	damages to the Indian River Lagoon and	screened from further consideration as part of the CERP. Further information on the
	Caloosahatchee River estuary from excessive	evaluation of this concept can be found in the C&SF Comprehensive Review Study
	freshwater releases required to relieve pressure on	(USACE 1999).
LF-14	The water quantity and quality modeling tools used	The USACE and SFWMD used the best available simulation tools to plan the CEPP.
i i	to implement the CEPP process cannot be	Modeling uncertainty and its implications to plan selection are addressed per USACE
	demonstrated to be accurate and precise with	guidance in Section 6.10.
	levels of confidence sufficient to discriminate	
	reliably between alternatives in a quantitatively	The RSM-BN and RSM-GL hydrologic models and the DMSTA water quality model
	rigorous way. The qualitative and semi-quantitative	were reviewed through the USACE Hydrology, Hydraulics, and Coastal Community of
	assertions that the CEPP can reliably discriminate	Practice (HH&C CoP) validation process for engineering software, as part of the CEPP
	between alternatives despite the propagated	project. The RSM (including RSM-BN and RSM-GL) and DMSTA models were both
	uncertainties in the assumptions, approximations,	classified by the USACE HH&C CoP as "allowed for use" for South Florida applications
	interpolations, and extrapolations are unconvincing	in August 2012 and January 2013, respectively. As documented in section 6.10.1.1 of
	in this regard.	the CEPP PIR (Hydrologic Simulation Tools), the validation reviews were conducted by
		qualified senior USACE engineers with support from technical experts, and USACE
		approval indicates that that software is technically/theoretically sound and approved
		for use by knowledgeable and trained staff for purposes consistent with the
		software's purposes and limitations. Additional details regarding the USACE software
		review process is provided in Section A.8.1.1 of Appendix A.
LF-15	The water quality modeling tool used is only	Clarification: The water quality modeling tool used to evaluate CEPP includes
	applicable to non-nutrients, so the decision-making	phosphorus which is a nutrient.
	process was oblivious to adverse environmental	
	impacts from toxic substances in toxic amounts,	See response for comment LF-10.
	including but not limited the extremely toxic and	
	bioaccumulative methylmercury (MeHg).	
	As a consequence, the work products that were	
	produced by that fatally flawed process, using	
	these deficient modeling tools, including the	
	ISP/PA, are also fatally flawed.	

COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
LF-16	A revised Programmatic Environmental Impact	A revised Programmatic Environmental Impact The Corps CEPP PIR/EIS properly tiers off the CERP programmatic EIS and specifically
	Statement (PEIS) is required for this precedent-	Statement (PEIS) is required for this precedent- identifies changes in circumstances and assumptions relevant to its analysis of CEPP.
	setting administrative action, because the previous The Corps PIR complies with NEPA.	The Corps PIR complies with NEPA.
	applicable PEISs incorrectly assume that the water	
	supply for rehydrating the Everglades, Biscayne	
	Bay, and Florida Bay will comply with all applicable	
	nutrient and non-nutrient WQS, which is not now	
	the case, but the project-specific PIR does not meet	
	the requirements of a revised PEIS.	

Table C.3.3-3. CEPP NEPA Draft PIR/EIS Email Comment Response Matrix

Sierra Club Overali, 1 support Sierra Club Overali, 1 support Restoration and rec Its implementation. PRIVATE CITIZENS CITIZEN-1 (JC); Compartment WC, Comment 1 sawgrass and brush the planned water. to ground level. CITIZEN-1; Also in the report Comment 2 now being installe	AGENCY/PUBLIC COMMENT Overall, I support this project as a good first step in Everglades Restoration and recommend that the Army Corp move ahead with Its implementation. Compartment WCA3b is so hopelessly choked with 20 foot tall sawgrass and brush it will take 200 years for it to change even with the planned water. I suggest they do a burn—and burn that mess to ground level. Also in the report in that same compartment in which gates are now being installed and backfilling and damming of the smaller levee I noticed it shows a levee going from tamiami trail north	CORPS RESPONSE Thank you for your comment. Please see response to comment CITIZEN-7 above.
(JC);	support this project as a good first step in Everglades on and recommend that the Army Corp move ahead with nentation. The state of th	Thank you for your comment. Please see response to comment CITIZEN-7 above.
E CONT	on and recommend that the Army Corp move ahead with nentation. The MCA3b is so hopelessly choked with 20 foot tall and brush it will take 200 years for it to change even with led water. I suggest they do a burn—and burn that mess lievel. The report in that same compartment in which gates are be installed and backfilling and damming of the smaller oticed it shows a levee going from tenniami trail north	CITIZEN-7 above.
I CO	nent WCA3b is so hopelessly choked with 20 foot tall and brush it will take 200 years for it to change even with red water. I suggest they do a burn—and burn that mess slevel. The report in that same compartment in which gates are its installed and backfilling and damming of the smaller oticed it shows a levee going from traniami trail north oticed it shows a levee going from traniami trail north	
	nent WCA3b Is so hopelessly choked with 20 foot tall and brush it will take 200 years for it to change even with need water. I suggest they do a burn—and burn that mess lievel. He report in that same compartment in which gates are he report in that same and damming of the smaller oticed it shows a levee going from tamiami trail north oticed it shows a levee going from tamiami trail north	
2	he report in that same compartment in which gates are ig installed and backfilling and damming of the smaller oticed it shows a levee going from tamiami trail north	Thank you for your comment.
about 15 n levee there stay more compared east? That	about 15 miles—but in other views it does not show it. there is no levee there—will one be placed to help channeling of the water stay more west so that it trends more towards shark river slough as compared to letting the new water planned end up going to far east? That levee is left of center of the attached screencapture	A new Blue Shanty levee extending from Tamiami Trail northward to the L-67A levee will be constructed. This Blue Shanty levee will divide WCA 3B into two subunits, a large eastern unit (3B-E) and a smaller western unit, the Blue Shanty Flowway (3B-W). A new levee is the most efficient means to restore continuous southerly sheetflow through a practicable section of WCA 3B and alleviates concerns over effects on tree islands by maintaining lower water depths and stages in WCA 3B.E. The width of the 3B-W flow-way is aligned to the width of the downstream 2.6-Mile Tamiami Trail Next Steps bridge, optimizing the effectiveness of both the flow-way and bridge. The location of the levee is described in Sections 6.1.1 and 6.10.2.2 of the minain report.
CCTIZEN-1; Another qu Comment 3 scheduled such as bik We like tr restoration Can you di report is VI	Another question—it shows the shark valley hiking—bicycle road as scheduled for removal—will there be any access as there is now such as biking or hiking—or with those 2 roads simply be removed? We like the road but will be glad to see it go as part of the restoration—we can't have our cake and eat it too. Can you direct me to the page of the report that explains it?—the report is VERV long—im sure its in there but cannot find it thanks	The Shark Valley Tram Road will not be removed by this project and will remain as a place to hike and bicycle. Portions of the L-67C and the L-67C Extension will be removed by this project, however there will still be hiking access and there will be additional trail access provided on the Blue Shanty Levee. There should be no net loss of hiking trails with this project. The description of the L-67 removal is described in Section 6.1.1 of the main report and the recreation features are described in Appendix F. Recreation Resources.
CITIZEN-2 (JM) Emailed co	Emailed comments also mailed in as formal letter. Comments are addressed in the Formal Letter matrix.	Please see the Formal Letter Comment Response Matrix.
CITIZEN-3 (RB) I completel a better un are looking	I completely support CEPP and encourage everγone out there to get a better understanding of it and spread the word. If not passed, we are looking at a long hard road to a better river.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-4 (JK) CEPP can I	CEPP can help our environment in many many ways and must be Thank you for your comment.	Thank you for your comment.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	passed! We cannot let this situation get any worse! The everglades must be restored.	
CITIZEN-5 (KW); Comment 1	In looking at the estimated future discharge quantities under CEPP, I don't see the est. reduction figure in billions of gallons for the St. Lucie. I do see the number 143.4 billion gallons for the past period of record, as well as the west coast number of 326 billion. But not the projected quantity for the SLE.	The RSM-BN water budget maps provide average annual flow volumes to the northern estuaries for the 1965-2005 period of simulation; these maps are provided with the Engineering Appendix - Appendix A, Annex A-2, Reference 4 (pp.# 274-293), as well as with the RSM modeling information posted on the public website.
	In other words how does the 65.2 billion break down by the two estuaries?	RSM-BN simulated discharges to the St. Lucie estuary are summarized below (average annual kAF for 1965-2005):
		ECB/2012EC IORBI.1 ALT4R2 From Lake Okeechobee: 163.7 83.8 126.4
		101.0 108.3 71.6 Other Basin runoff: 557.0 541.7 536.5
		C-44 reservoir; 0.0 4,5 0,0
		Total in average annual kAF: ECB/2012EC IORBL1 ALT4R2 821.7 838.3 734.5
		Total in average annual billions of gallons: ECB/2012EC IORBL1 ALT4R2 268 273 239
CITIZEN-6 (DG); Comment 1	The Pensacola area is in a state of emergency because they don't have enough water. Too much water is flowing into Lake Okeecobee from north of the Lake. Can't any of it be pumped to the Densarola area instead? We water sho mirk water	The CEPP is encompassed in the CERP, which was approved by Congress as a framework for the restoration of the natural system under Section 60.1 of the WRDA of 2000. The purpose of the Restudy was to reasymine the CSS Poi
		structural or operational modifications to the project essential to the restoration of the Everglades and south Florida ecosystem, while
		providing for other water-related needs such as urban and agricultural water supply and flood control in those areas served by the project. The CEPP is composed of increments of project

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		components that were identified in CERP. Water supply within the referenced area is not within the scope of CERP.
Comment 2	As 'Best Management Practices' for farms & ranches, can't we require them to reuse their runoff or charge them a per acre fee for us to cleanup & store their water for them instead of trying to give them an incentive to reuse their water? The special incentives the government gives sugar & other farmers could be stipulated that it is for the purpose of setting up & maintaining their own on site reservoirs. Since many of them have land to sell, then they have land to use for these purposes. We shouldn't have to pay them to lise their land to do this for them.	Farm operators within the Everglades Protection Area currently pay a water quality pollution fee on a per acre basis.
CITIZEN-6; Comment 3	Residents & businesses get charged a fee for wastewater per 1000 gallons of water used. Do they?	Many residents and businesses that are connected to central wastewater collection and treatment systems do pay a user fee that is typically assessed on a volume basis. Residents and businesses that are not collected to central treatment works may not pay this fee but are still responsible for treating their wastewater.
CfrizeN-6; Comment 4	All water being sent to Lake Okeechobee should be required to be deamed first. All fresh water going to estuaries is a problem, but dirty water is worst & you can't send the dirty water to the Everglades either. It has to be cleaned up first.	Please see Section 5 and Appendix C.2 for an assessment of environmental effects of the alternative actions and the seromemeded Plan. The Recommended Plan is not expected to significantly affect the water quality of Lake Okeechobee or the Northern Estuaries. The Northern Estuaries should see slight improvements to water quality that result from reduced high flow events associated with operations of Lake Okeechobee. The Recommended Plan depends on SFWMD owned and operated water quality treatment facilities (STAz 2 and 3.4) and is integrated with the yet to be constructed A-1 FEB included in the SFWMD's Restoration Strategies Project (SFWMD 2012). All features of the Restoration Strategies Project must be completed and meet State water quality standards prior to initiating construction of most CEP project features. To ensure that the Recommended Plan meets state water quality standards discharges permits with associated effluent limits will govern discharges from the State facilities to WCA 3. Appendix A water quality compliance must be addressed for new project Water entering ENP. For additional clarification please refer to Section 6.3.1 and 6.3.2.
CITIZEN-7	We support the CEPP report. Don't let it be delayed. This is a critical	Thank you for your comment. The significant amount of water

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE	
	step. It needs to happen NOW"	resulting from CEPP will beneficially affect more than 1.5 million acres in the St. Lucie and Caloosahatchee Estuaries, Water Conservation Area (WCA) 3A, WCA 3B, Everglades National Park (ENP), and Florida Bay. Staff will work as expeditiously as possible to Complete the Chief of Engineer's Report for submittal to the Assistant Secretary of the Army for Civil Works and Office of Management and Budget (OMB) for administrative review This will occur upon completion of the State and agency review of the Final Central Everglades Planning Project (CEPP) Final Integrated Project (EIS). Construction will be dependent upon Congressional authorization and funding.	fect more than 1.5 million hatchee Estuaries, Water by Everglades National Park expeditiously as possible to port for submittal to the Civil Works and Office of ministrative review. This will a gency review of the final PP) final Integrated Project numental Impact Statement dent upon Congressional
CITIZEN-8	I'm writing to urge the support of CEPP. The importance of this step to an overall solution to the water management crisis in South Florida is extremely critical. Please consider this important action.	Thank you for your comment. Please see response to comment CITIZEN-7 above.	see response to comment
CITIZEN-9	Please finalize CEPP now. I support it. It is dragging out way too long. Please don't let there be any more delay!	Thank you for your comment. Please see response to comment CITIZEN-7 above.	see response to comment
CITIZEN-10	Finalize CEPP now.	Thank you for your comment. Please CITIZEN-7 above.	Please see response to comment
CITIZEN-11	Please do your best to get quick approval for CEPP in order to help alleviate the continued degradation of the Indian River Lagoon, St. Lucie River and Caloosahatchee River.	Thank you for your comment. Please see response to comment CITIZEN-7 above.	see response to comment
CITIZEN-12	Finalize CEPP NOW! Please! The river is toxic. Federal laws are being ignored. The wildlife is unprotected. CEPP will help!		Please see response to comment
CITIZEN-13	Finalize CEPP now. We support it, Don't let it be delayed. It is time to speak up for what cannot speak for itself.	1	Please see response to comment
CITIZEN-14	Please finalize CEPP don't let it be delayed. We need this done, Our estuary is dying. Why must it die!!!	Thank you for your comment. Please CITIZEN-7 above.	Please see response to comment
CITIZENS-15- 28	Finalize CEPP now!- We support it!- Don't let it be delayed!	Thank you for your comment. Please CITIZEN-7 above.	Please see response to comment
CITIZEN-29	please finalize this!	Thank you for your comment. Please CITIZEN-7 above.	Please see response to comment
CITIZEN-30	We strongly urge you to finalize the Central Everglades plan to send more water south from Lake Okeechobee. This action along with a comprehensive Water Resource Bill in congress is the best way forward to speed up Everglades restoration and minimize the	Thank you for your comment. Please CITIZEN-7 above.	Please see response to comment

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE	
	danger of failure of the dike around the lake.		
	we tight you in advance for putting forth the effort to do this important work. Please don't let this be delayed.		
CITIZEN-31	Please finalize CEPP now! We support and need it!	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-32	Dear USACE, Please enact CEPP, to save the Saint Lucie River and estuary. Thank you	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-33	Our river is dying. Do something now!!! We support the CEPP report. Don't let it be delayed. This is a critical step. It needs to happen NOW.	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-34	CEPP, the Central Everglades Plan to send more water south from the Lake, must be included in the Water Resources Bill that Congress is considering.	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
-	Finalize CEPP now. Don't let it be delayed. This is so important for the future of Florida's natural eco-system!!		
CITIZEN-35	Finalize CEPP now. I support it. Don't let it be delayed please! Make sure that it gets put in the Water Resources Bill!	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-36	I am writing to emphasize that it is time to adopt and finalize the CEPP program. As an Everglades Biologist, I support the plan despite its shortcomings. There is no time for delays in restoring the remaining Everglades ecosystem and I urge you to implement this Plan quickly.	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-37	Finalize CEPP now. Florida's citizens support it. Don't let it be delayed.	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-38	Finalize CEPP now. We support it. The People have spoken. Don't let it be delayed.	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-39	Finalize CEPP now! We support it! Don't let it be delayed! You owe it to the businesses AND residents of Florida!!!!	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-40	finalize CEPP NOW !!!	Thank you for your comment. Please see response to comment CITIZEN-7 above.	to comment
CITIZEN-41	We support the CEPP report. Don't let it be delayed. This is a critical	Thank you for your comment. Please see response to comment	to comment

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	step. It needs to happen NOW.	CITIZEN-7 above.
CITIZEN-42	Please finalize CEPP now. We support it. Don't let it be delayed!! We need to fix the pollution to the Indian River Lagoon.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-43	I work for FWC and an NGO doing research and rescue of sea turtles and many other marine animals including dolphins and manatees and strongly urge you to put your FULL SUPPORT behind CEPP. Finalize CEPP now!! We all support it. Don't let it be delayed this must happen asap the lagoon is so toxic as it is we must reverse this devastating effect it's having on our manatees, dolphins and pelicans not to mention the ecosystem in general. The plan to send more water south from the lake is a start. It won't solve the problem, but it is a very important step. Don't cower to political maneuvering and sneady attempts to stall and derail it. You know the lagoon is a mess it's time to fix it no more BS and excuses. We are all watching what you guys do and don't do.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. Please see response to comment CITIZEN-7 above regarding the project schedule.
CITIZEN-44	Please send the water south with plan 6. The waterways are toxic and our lives depend on Clean Water.	Alt 4R2 redirects an average of approximately 210,000 acre feet per year of clean freshwater into the central portion of the Everglades that would otherwise be undesirably discharged to the Northern Extraction. The concept of a "flowway" or broad shallow marsh area that is used to flow water freely from Lake Okeechobee to one or more of the WCAs was screened from further consideration as part of the CERP. Further information on the evaluation of this concept of the Pound in the C&SE Comprehensive Review Study (USACE 1999).
CITIZEN-45	Please finalize the CEPP now – essential for a first step to preserve environmental/ecological integrity of the affected region.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-46	FINALIZE CEEP NOW! SEND MORE WATER TO THE LAKE!	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-47	Finalize CEPP now. We support it. Don't let it be delayed!!!! The health of so many depend on it!	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-48	Greetings and thank you for this opportunity to share my feelings on this problem. I live in Palm City, FL. I started coming here 3 years ago. In just this short amount of time, I have seen such great destruction in the water quality and eco system here in our estuary. It makes me very sad and frustrated! One of the main factors is the release of water from Lake Okeechobee. I know this is not a new	Alt 4R2 redirects an average of approximately 210,000 acre feet per year of clean freshwater into the central portion of the Everglades that would otherwise be undesirably discharged to the northern estuaries. The off a "flowway" or broad shallow marsh area that is used to flow water freely from Lake Okeechobee to one or more of the WCAs was screened from further consideration as part

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	problem; there are many contributing factors, and the whole flood control issue it is very complicated. But ONE long term fix for this is to let the water go back south to the everglades through "The River of Grass" as it was intended to do naturally before we made the dike, before we straightened the river that feeds the Lake O from the north, before we sent the water east & west, before Big Sugar Cane had such a stronghold on our politicians. I believe and hope that most of these projects were done with good intentions as a solution to other problems, but the repercussions are tragic and we must stop the insanity and restore what we can NOW. I understand the Sugarcane industry is very powerful in our political system but The People need to be served. We are doing more and more everyday to stop bullying in our schoolswe need to stop the bullying in our politics. Do the right thing and the PEOPLE will support you: D.	of the CERP. Further information on the evaluation of this concept can be found in the C&SF Comprehensive Review Study (USACE 1999).
CITIZEN-49	I'm wondering how much of the 65.2 billion estimate for reduction of the estuary discharges is estimated for the St. Lucie?	The Recommended Plan will result in a 23% reduction in average annual discharges (thousand acre-feet) from Lake Okeechobee to the St. Lucie Estuary. Please see response to comment CITIZEN-5 above for more detail.
CITIZEN-50	I am a 3rd generation Floridian. In the mid 1800s my grandfather, Thomas J. Peters farmed citrus in the area of Lake Okeechobee. In 1895 his family came south and farmed in the Homestead area. It is CRUCIAL that the few remaining natural water resources within this state are preserved and protected for future generations. PLEASE respond to the long-time residents of this state who are committed to conservation and protection. PLEASE finalize the Everglades plan NOW!	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-51	I have lived at the St. Lucie locks for 25 years. I spent a lot of time away in college, but every time I came back to visit, I timed the Lake Okeechobee discharges perfectly, unfortunately, to see the estuary again, and indired. I have seen this ecosystem thrive, and I want to see it thrive again. I am now 35, and I have invested in 6 boats to be built for a strictly inshore charter operation. I fear this ecosystem will be dead before I get a chance to capture my right to happiness. I am also a local Sea Tow Captain. My area of responsibility is from the Marrill Barber Bridge in Vero Beach, south to Hobe Sound Bridge just south of Tequesta, by ICW. I also cover all headings up to 60	The concept of a "flowway" or broad shallow marsh area that is used to flow water freely from Lake Okeechobee to one or more of the WCAs was screened from further consideration as part of the CERP. Further information on the evaluation of the concept can be found in the C&SF Comprehensive Review Study (USACE 1999). Alt AR2 does address the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that the CEPP is a great first step in reducing undesirable discharges to the

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE	
	miles offshore, and the Eastern half of Lake Okeechobee. I have	Northern Estuaries and that additional actions will be needed resolve	be needed resolve
	witnessed the death and destruction and resulting economic impact	all of the undesirable conditions the estuarine communities	rine communities
	from every heading on the compass rose. I am writing to voice my	experience.	
	concern, and to ask for your help by finalizing CEPP without delay.		
	A finalized and appropriated CEPP would decrease damaging		
	discharges to two ecologically fragile estuaries, and ease the		
	economic loss that hard-working, tax-paying Floridians, in a Wide		
	range of industries, are now experiencing. If you rail to prevent this repeated ecological onstallish now what will it look like by 2020.		
	when the plan might be addressed again for inclusion to WRDA?		
	The Army Corps' primary focus, the Herbert Hoover Dike, is indeed		
	a threat to Lakeside residents, and the ecosystems, south of Lake		
	Okeechobee. We know how it was built, and that the water		
	threatens to go under the dike, not through or over it. We also		
	know that the lake was recently at 16 feet, and still rising, despite		
	massive releases at the St Lucie lock and Caloosahatchee River		
	headwaters. Passage of CEPP and a fortified dike are both within		
	reach. The result would be safety for residents, healthier estuaries		
	and economies, and a real step toward Everglades' restoration.		
	Please do the right thing this week and sponsor CEPP, and support		
	ongoing efforts for CERP, and encourage negotiations to institute		
	Plan 6.		
CITIZEN-52	Please get to work.	Thank you for your comment. Please see resp. CITIZEN-7 above.	Please see response to comment
CITIZEN-53	JUST DO IT	Thank you for your comment. Please see respi	Please see response to comment
		CITIZEN-7 above.	
CITIZEN-54	CEPP is needed urgently! Please don't hold it up!	our comment.	Please see response to comment
(LO)			
(C.)	Someone has made a huge mistake in releasing political take	our comment.	Piease see response to comment
(3c)	Okeechobee water so that itsi and manatees are dying in our	CIIIZEN-/ above.	
	watch dogs. What happened? Please correct this at once.		
CITIZEN-56 (R)	Finalize Capp now	Thank you for your comment. Please see respi	Please see response to comment
		- 1	
CITIZEN-57 (GA)	As a Martin County resident I ask that you please finalize CEPP now. No more delays. The Everglades are unique and we need to restore	Thank you for your comment. Please see resp. CITIZEN-7 above.	Please see response to comment
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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	a clean flow.	
CITIZEN-58	Please finalize CEPP now!!!	Thank you for your comment. Please see response to comment
(KI)		- 1
CITIZEN-59	Please finalize CEPP without delay. We support this effort to save	Thank you for your comment. Please see response to comment
127	חמו אמנבו אמא א מווח רווב באבו צומחבא	CITIZEN'-/ ADOVE,
CITIZEN-60	CEPP is needed now. Don't hold it up!	Thank you for your comment. Please see response to comment
(ab)		CITIZEN-/ above.
CITIZEN-61 (JJ)	We live on the river in Palm City and are distressed at the	The Recommended Plan will result in a 23% reduction in average
	destruction of our riverdead oysters, grass, dolphins, manatees	annual discharges (thousand acre-feet) from Lake Okeechobee to the
	and the list goes on. The algae blooms and bacteria have made our	St. Lucie Estuary and a 25% reduction to the Caloosahatchee. The
	river toxichow can this happen in this age of conservation and	Recommended Plan will also result in a 25% and 41% reduction in
	trying to protect the environment? Please allow the water to take	high flows to the St. Lucie and Caloosahatchee Estuaries relative to
	it's natural course SOUTH!	existing conditions, respectively. Reductions in the number and
		severity of high volume discharge events to the Northern Estuaries
		will be beneficial to estuarine communities.
CILIZEN-62	Martin County residents, including myself, ask that you finalize and	Ihank you for your comment. Please see response to comment
(AO)	proceed with CEPP now, without any further delays. There will	CITIZEN-7 above,
	always be challenges to every idea considered to correct and relieve	
	this huge man made problem, but common sense should prevail	
	and CEPP will be one important step to solving our South Florida	
	water problems.	
CITIZEN-63	It is disgraceful what has been allowed to happen tour beautiful,	Thank you for your comment. Please see response to comment
(TC)	natural St. Lucie inlet area! Absolutely awful. Please finalize the	CITIZEN-7 above.
	CEPP as a first step to help save us. Please.	
CITIZEN-64	Please finalize CEPP Now, Don't let it be delayed, The lagoon needs	Thank you for your comment. Please see response to comment
(RA)	help now!	CITIZEN-7 above.
CITIZEN-65	Please support this plan the waterways you guys are currently	Please see response to comment CITIZEN-61 above. The
(EJR)	destroying through mismanagement support the entire aquatic	Recommended Plan will result in reductions in the number and
	food chain in south fl. We need to start moving some of the	severity of high volume discharge events to the Northern Estuaries,
	polluted death water you call fresh somewhere other than the st	beneficially affecting estuarine communities.
	lucie and calloosahatchee rivers. You have killed our fish and grass	
	as well as dolphins manatees sea turtles and other aquatic animals	
	long enough. I only hope the damage you've caused is reversible	
	with time. There is no excuse for the continued dumping it is	
	despicable.	
CITIZEN-66	Please finalize CEPP now. Our whole way of life, our economy, our	Please finalize CEPP now. Our whole way of life, our economy, our Thank you for your comment. Please see response to comment

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
(ww)	property values, everyday existence depends on CEPP NOW. Don't	CITIZEN-7 above.
	let it be delayed. It won't solve the problem, but it is a very	
	important step. The deadlines are very tight to get it approved and	
	then included in the Water Resources Bill that Congress is	
	considering. Please don't allow it to be delayed. We have no more	
	TIME,	
CITIZEN-67 (PI)	WOW! The devastation that has been wrought by the dumping of	Thank you for your support of CEPP. Alt 4R2 does address the need
	polluted fresh water from Lake Okeechobee into the St Lucie	to restore ecosystem function in the Northern Estuaries by reducing
	Estuary has been inconceivable! This water was never intended by	the number and severity of events where undesirable amounts of
	nature to come into the St Lucie River. On the flip side the	freshwater from Lake Okeechobee are discharged into the estuaries;
	everglades have been suffering for years from lack of NATURAL	however the USACE acknowledges that additional actions are
	fresh water flow from the lake. Is Big Sugar that Big! Stop trying to	needed to improve all conditions for the estuarine communities.
	change what nature has intended and start listening to the people	
	that are affected by this pollution. Finalize the CEPP and let's start	
	saving one of the greatest natural resources here in Florida.	
CITIZEN-68	PLEASE APPROVE CEPP, THE RIVER IS A MESS. THIS PROJECT HAS	The Recommended Plan addresses the need to restore ecosystem
(MB)	BEEN ON THE DRAWING BOARDS FOR YEARS, A TURTLE MOVES	function in the Northern Estuaries by reducing the number and
	FASTER THAN OUR GOVERNMENT. THIS IS NOT ONLY CRITICAL TO	severity of events where undesirable amounts of freshwater from
	OUR ENVIRONMENT BUT IS A ECONOMIC FACTOR TOO. BETWEEN	Lake Okeechobee are discharged into the estuaries. The USACE
	THE FISHING, BOATING, TOURISM ETC. IT IS A HUGE FACTOR IN	acknowledges that additional actions are needed to achieve the
	FLORID'S ECONOMY AND QUALITY OF LIFE. PLEASE TAKE THIS	restoration envisioned in CERP and to help reduce turbidity,
	IMPORTANT STEP. WE UNDERSTAND THAT IT IS ONLY THE	sedimentation, and moderate unnatural changes in salinity that are
	BEGINNING BUT LETS GET STARTED.	extremely detrimental to estuarine communities.
CITIZEN-69	Please finalize CEPP now. I support it. Don't let it be delayed. It's a	Thank you for your comment. Please see response to comment
(ar)	very important step for sending more water from Lake Okeechobee	CITIZEN-7 above.
CITIZEN-70	Why is something so important getting resistance for not passing it?	Thank you for your comment. Please see response to comment
(cs)	We in Martin County have had enough of this intrusion.	CITIZEN-7 above.
	Something so simple has become so polítical. WHY?	
	Send more Lake O south where it rightfully belongs. My kids can't	
	go in this putrid water anymore.	
CITIZEN-71 (AP)	Please finalize the CEEP now. We cannot be delayed.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-72	It has been over 30 years that you have been stalling on this	Thank you for your comment. Please see response to comment
(DF)	project. Now we have a situation where an important part of our	CITIZEN-7 above.

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	eco system has been damaged and many of our fish and manatees will be lost. Start the flow South to the everglades before you make the entire estuary unilvable. We will soon be seeing fish kill washing up in Palm Beach, maybe the big spenders down there can light a fire under some politician. This has to stop, I've noticed that you time these releases until after the "season", really great thinking any more brilliant ideas to get away from doing your jobs?	
CITIZEN-73 (MC)	Please Finalize CEPP Amendments NOW	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-74 (CG)	Please finalize CEPP now. I support it and Florida needs it. Don't let it be delayed or derailed. Send the water south. Help save the Everglades.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-75 (HO)	Please FINALIZE CEPP NOW! We strongly support it. It is so important, don't let it be delayed!!!	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-76 (EF)	Please Finalize CEPP now. I support it. Don't let it be delayed to send more water south from the lake. It won't solve the problem, but it is a very important step. The deadlines are very tight to get it approved and then included in the Water Resources Bill that Congress is considering.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-77 (CM) CITIZEN-78 (JK)	Please finalize CEPP for Martin Co. Our estuary is dying and we are receiving no help. PLEASE Finalize CEPP now. We support it. Don't let it be delayed.	Thank you for your comment. Please see response to comment CITIZEN-7 above. Thank you for your comment. Please see response to comment
	The deadlines are very tight to get it approved and then included in the Water Resources Bill that Congress is considering.	CITIZEN-7 above.
(LRH)	You, being the Army Corp of Engineers have not, for many years, enjoyed the respect of the citizens of the Estuary Counties. You now have a wonderful opportunity to gain that respect with one simple (difficult???) action. Simply by initiating the Central Everglades Plan Projects and sending much of that "Dirty" water South, you will earn the respect you deserve for having to deal with a very difficult and stressful job for these many years. Not only have our Estuary's suffered but our economy, which is very fragile, (partly due to our desire for a rural environment), has also suffered over the years. Please do your VERY BEST to initiate this program ASAP.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undestable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
CITIZEN-80 (JC)	Hi I went to the meeting in plantation last night but there is the	

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COMMENTER	COMIMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	cerp webpage and a couple of things didn't match.	Thank you for your comment and your attention to Everglades
		restoration. The answer to your questions includes a clarification of
	At the meeting they said the price was almost 2 billion but the	two related Everglades restoration efforts: CERP and CEPP. CERP is
	Wedpage creatify says that its aimost ten billion.	the comprehensive Everglades restoration rian that includes over 60 restoration projects throughout the Everglades and associated
	I asked one of the ladies during the open house chat session "lets	estuaries, which were envisioned to be constructed over ~30 years.
	take going back 10 years as a referencein the past years or even a	CERP was approved by Congress in 2000. The expected cost of CERP
	year from now has there been any addition or even a cupful of	is ~\$10 billion as said on the CERP website. Several of the restoration
	water or change to the waterflow?" im 60 so my reason for asking	projects that are part of CERP are under construction and are
	is about any improvement in the past years or my lifetime. She said	improving the hydrology of the south Florida ecosystem, including
	no unless I misunderstood her—however the cerp page says that	Picayune Strand restoration, southern Indian River Lagoon
	some improvement is already being seen in certain areas over the	restoration, and the Site 1 impoundment. Several others are ready
	years	to be constructed but are waiting for tinal approval and budgeting from Congress. These include the C.13 Reservoir, the Broward
	So im curious about those 2 thingswhy dosent the price match not	County Water Protection Area, the C-111 Spreader Canal, and the
	even close? The past few years lets say 10-20 are the everglades	Biscayne Bay Coastal Wetlands projects, (n addition, other important
	lets say south of tamiami trail any wetter in the slightest? Or will	restoration work in the region is contributing to restoration progress
	there literally be no change for possibly decades?	in addition to CERP, including Kissimmee River restoration and the C-
		111 South Dade project. These are approaching completion.
	You guys are doing great and I realize its about funding. The reason	
	I ask the questions is curiosity and has nothing to do with why	The Central Everglades Planning Project, or CEPP, is a part of CERP.
	aren't things happening faster. Im mostly curious in my lifetime and	The public meeting in Plantation that is referenced in the comment
	the past years—are the glades slightly improved?or still just sitting	focused on CEPP, CEPP will accomplish several more of the
	the same lets say as they were in 1960?? I relocated here about 14	components that were described in CERP. The cost of CEPP is
	years ago are the glades now identical to how they were then?	estimated at ~\$2 billion, since it is a large portion of CERP. CEPP
	(ignoring changes such as heavy flood or drought years etc)Thanks	needs final approval from Congress before construction can begin.
	As I say my questions are only out of curiosity—I have no	sections 1 and 6.9 of the CEPP Project implementation Report (Pirk) describe the relationship between CEBP and CEPP. This document is
	complaints,	located online at
		http://www.evergladesplan.org/pm/projects/docs 51 cepp_draft_p
		ir.aspx
CITIZEN-81	Please finalize the plan to move more water south. I am a native	Thank you for your support of CEPP.
(AK)	Conservation in the 60's for many years. As active supporters of	
	saving our natural resources, as best we can, I'm hoping this will be	
	a positive move.	

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN-82 (JP)	As a Florida native who now resides in Jensen Beach, FL I am	Thank you for your comment. Please see response to comment
	sickened and disgusted about the condition of the river and	CITIZEN-7 above. The Recommended Plan does address the need to
	estuaries here, I am pleading with you to finalize plans for CEPP	restore ecosystem function in the Northern Estuaries by reducing the
	now before it is too late. This won't solve the entire problem, but	number and severity of events where undesirable amounts of
	it's a good start and long overdue.	freshwater from Lake Okeechobee are discharged into the estuaries;
		however the USACE acknowledges that additional actions are
	Thank you for your help in this matter which affects all of us who	needed to improve conditions for estuarine communities within the
	live in Florida.	Northern Estuaries.
CITIZEN-83	I believe that CEPP needs to be passed because it will return Florida	Please note the following correction: the Recommended Plan is
(EH)	to a semi natural state. The proposed Alt4R will provide a cheaper	termed Alternative 4R2.
	way to move more water south which will positively impact both	
	the Indian River Lagoon and the Caloosahatchee.	
CITIZEN-84	We support the CEPP report. Please don't let it be delayed. It is a	Thank you for your comment. Please see response to comment
(CK)	critical step that needs to happen NOW !!!	CITIZEN-7 above.
CITIZEN-85	My wife and I have lived in Hobe Sound for 14 years, and I'm very	Thank you for your comment. Please see response to comment
(BM)	much aware of the damage from water moving south from the lake.	CITIZEN-7 above. The Recommended Plan does address the need to
	I'm a fisherman, I respect the environment, and I ask you to	restore ecosystem function in the Northern Estuaries by reducing the
	consider the importance of resolving the problem, hopefully by	number and severity of events where undesirable amounts of
	stopping this dumping.	freshwater from Lake Okeechobee are discharged into the estuaries;
		however the USACE acknowledges that additional actions are
		needed to improve conditions for estuarine communities within the
		Northern Estuaries.
CITIZEN-86	Finalize CEPP now. We support it. Don't let it be delayed. This	Thank you for your comment. Please see response to comment
(TC)	blatant environmental destruction has led to me losing 2 months	CITIZEN-7 above. The Recommended Plan does address the need to
	worth of income which is directly tied to the recreational activities	restore ecosystem function in the Northern Estuaries by reducing the
	on the Indian River Lagoon.	number and severity of events where undesirable amounts of
		freshwater from Lake Okeechobee are discharged into the estuaries;
		however the USACE acknowledges that additional actions are
		needed to improve conditions for estuarine communities within the
		Northern Estuaries.
CITIZEN-87	I agree with CERP's motive, It will improve water quality and water	Thank you for your comment.
(DP)	flow which are the two important features that are the backbone of	
	restoration. These two features alone will do a significant helping in	
	saving the Everglades and our Florida estuaries.	
CITIZEN-88 (JT)	Finalize CEPP NOWand stop holding meetings in the afternoons on work days manyle cannot afford in this economy to take days off	Finalize CEPP NOWand stop holding meetings in the afternoons Alt 4R2 redirects an average of approximately 210,000 acre feet per on work days manip cannot afford in this economy to take days off was not place feetwater into the central portion of the Eusergades
	on work days, people calliot allold in this economy to take days on	year of clean freshwater filto the central portion of the Evergrades

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	to tell you what you already KNOW is the right thing to do. Our economy is suffering due to the river and lagoon destruction and we need NO STALLING from you people. You know that the only solution to our problems is Plan Six and sending water South. You have until October 15th, we want action NOW.	that would otherwise be undesirably discharged to the northern estuaries. The concept of a "flowway" or broad shallow marsh area that is used to flow water freely from Lake Okeechobee to one or more of the WCAs was screened from further consideration as part of the CERP. Further information on the evaluation of this concept of the CERP. Further information on the evaluation of this concept an be found in the C&SF Comprehensive Review Study (USACE 1999).
CITIZEN-89 (LC)	I urge you to finalize the Central Everglades Plan Projects immediately before the deadline to be included in the Water Resources Bill that Congress is considering. We must send more water south from the Lake. It is our primary and most effective solution and needs to begin NOW. I live on the St. Lucie River and it is a mess due to pollution from Lake O. Help now!!!	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-90 (FD)	I support CEPP and would like you to finalize it now. Do to other obligations, I am unable to attend you open houses, but I support CEPP and would really appreciate it if you would finalize it. I know this is just one of many way to move the water out of Lake O, but we need it.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-91 (U)	Please make the effort to finalize CEPP. So much depends on this. CEPP is the catalyst for restoring The Everglades, Lake OKeechobee, the St. Lucie and Caloosahatchee Rivers as well as all related waterways. Please dorf just let this silde. There will come a point where the damage to the environment will be irreversible. It is very soon. Not finalizing CEP shouldn't even be a consideration I Woving CEPP forward is vital to ALL of South Florida. The time to act is NOW. It should have been sooner, but NOW is good, Just do it!	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-92 (RB)	Finalize CEPP now. We support it. Don't let it be delayed. CEPP is "Central Everglades Plan Projects" to send more water south from the Lake. It won't solve the problem, but it is a very important step. The deadlines are very tight to get it approved and then included in the Water Resources Bill that Congress is considering. Send water south.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-93 (CE) CITIZEN-94	Please finalize assistance to the natural flow of water to the South.	Thank you for your comment. Please see response to comment CITIZEN-7 above. Thank you for your comment. Please see response to comment
CITIZEN-94	Sirs, We support moving forward with the CEPP. Our estuary can't	Thank you for your comme

CEPP Final PIR and EIS

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
(KW)	withstand anymore discharges from the Locks.	CITIZEN-7 above.
CITIZEN-95 (DW)	Cannot be at the mtg. so please hear my plea to save our Lagoon	Thank you for your comment.
CITIZEN-96 (KD)	My wife and I live in Rocky Point, Stuart. We are very disappointed with the lack of progress in letting us use the St. Lucie River. Every year the same filth express us to unhealthy nasty conditions and	The Recommended Plan addresses the need to restore ecosystem function in the Northem Estuaries by reducing the number and exurction in the Northem Estuaries by reducing the number from the present of a worst where undesirable amounts of freekwater from
	year, are some man exposes as so amounty mass contactors and we would like the water to go south to the Everglades as nature intended.	Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity,
	The town of Stuart is getting famous for unhealthy conditions. As an avid boater, we have not been able to use the our boats safely for	sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
	months. Commercial divers retuse to remove the barnacles on our propellers and shafts until the water is safe. Just yesterday, I had my boat removed from the water to clean the running gear. The	
	Manatee Pocket is so dirty that the bottom was nearly clean. Even the barnacles can not live in that water.	
	Take a look at the number of boats in the River on a Saturday	
	morning. Very few people want to enjoy their hobby in a sewer! If	
	you catch a fish, it is inedible! Real estate values must be taking a	
	nit. Local marine related businesses have been impacted.	
	Please do the right thing!	
CITIZEN-97 (P)	PLEASE, Finalize CEPP now!	Thank you for your comment. Please see response to comment CITIZEN-7 above.
	More water from Okeechobee MUST be sent south instead of down the St Lucie River!	
	Martin county needs permanent relief from the discharges If heavily contaminated lake " O" water,	
	By copy to my neighbors, please send your message to "USACE.ARMY.MIL" to urge them to take action now to send more water from lake " O" south into the Everglades. They can take a small shan in that direction now with the annoval of FEPD.	
	CEPP is "Central Everglades Plan Projects" to send more water	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	south from the Lake. It won't solve the problem, but it is a very important step. The deadlines are very tight to get it approved and then included in the Water Resources Bill that Congress is considering. There are expected to be attempts to stall/derail it.	
CITIZEN-98 (HR)	Please finalize CEPP now. The people of Martin County and in the area support this important step to help solve some of the lake problems. Please do not delay this.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-99 (TR)	I am writing to express my support for finalizing CEPP now. As a resident of Martin county, my family and community has been severely impacted by the ongoing discharges into the St Lucie River. For us this has been a lost summer, but more importantly it has been a severe blow to the health of the Indian River Lagoon. Each year that water from the lake is discharged into the lagoon does further destruction to the whole ecosystem. Each year makes any chance of restoring this natural treasure get slimmer and slimmer. The first step in restoration is to have the lake flow returned to its	Thank you for your comment. Please see response to comment CITIZEN-7 above.
	natural path south through the everglades. My family and I implore you to think long term for the future of generations to come and to finalize CEPP now. Every day we wait, every gallon we send in this perverse discharge, brings the impacted rivers and lagoons closer to irreparable harm. Time is of the essence; please act now.	
CITIZEN-100 (TC)	Finalize CEPP now. The discharges are killing the economy of the Treasure Coast.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, esdimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN-101	Please move swiftly forward with the purchase of lands as provided	Staff will work as expeditiously as possible to complete the Chief of
(RH)	in the CEPP Project. This should have been taken care of years ago.	Engineer's Report for submittal to the Assistant Secretary of the
	The time to act was many yesterdays ago! I am really unclear what	Army for Civil Works and OMB for administrative review. This will
	you are waiting for. The River & Estuaries are dying, wildlife is	occur upon completion of the State and agency review of the Final
	dying, livelihoods are dying. I cant even take my visiting	CEPP PIR/EIS. Construction of project features will be dependent
	Grandaughter to the beach or for a ride in our boat, or fishing off	upon Congressional authorization and funding.
	the dock. Its stupid. We have to take care of our World, our Earth.	
	Please, Stop messing around and take care of this situation NOW!	
CITIZEN-102 (KM)	Finalize CEPP now. We support it. Don't let it be delayed.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
	CEPP is "Central Everglades Plan Projects" to send more water	
	south from the Lake. It is a very important step. Approval is	
	needed NOW to be included in the Water Resources Bill that	
	Congress is considering.	
CITIZEN-103	STOP CATTERING TO BIG CORPORATE DONORS. Finish the CEPP.	The Recommended Plan addresses the need to restore ecosystem
(BM)	Clean up c-24 and c-23, clean up the lake, stop the backpumping.	function in the Northern Estuaries by reducing the number and
	Stop polluting our water. What good is profit if we have no	severity of events where undesirable amounts of freshwater from
	environment and no standard of living and live in a crap hole? Stop	Lake Okeechobee are discharged into the estuaries. The USACE
	kicking the can down the road.	acknowledges that additional actions, such as C-43 and IRL-S are
		needed to achieve the restoration envisioned in CERP and to help
		reduce turbidity, sedimentation, and moderate unnatural changes in
		salinity that are extremely detrimental to estuarine communities.
		Staff will work as expeditiously as possible to complete the Chief of
		Engineer's Report for submittal to the ASA (CW) and OMB for
		administrative review. This will occur upon completion of the State
		and agency review of the Final CEPP PIR/EIS. Construction of project
		features will be dependent upon Congressional authorization and
		funding. The implementing agencies are committed to engaging in a
		public process after Congressional authorization and appropriations
		of CEPP to integrate CEPP into the CERP Master Implementation
		Sequencing Plan which defines the order in which CERP projects
		would be planned, designed, and constructed.
		The EDED is in the process of developing a Rasin Management Action
		Plan (BMAP) for Take Okeechobee pursuant to Section 403 067
		Florida Statutes. This BMAP will be an iterative effort to address
		water quality issues in Lake Okeechobee.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN-104	Because of previous obligations, I am not sure I will be able to	Thank you for your comment. Please see response to comment
(KCT)	attend tonight's meeting so I would like to be sure to urge the approval of CEPP and get it back to SFWMD in short order.	CITIZEN-7 above.
CITIZEN-105 (JW)	Finalize it NOW. We are in favor.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN-106	Dear sirs, You are surely aware that the more of Lake O's water that	The existing C&SF Project is designed to discharge the majority of
(MB)	goes south instead of east or west, the better for the St.Lucie River.	Lake Okeechobee's flood control releases to the Northern Estuaries. The ability to move water south from Take Okeechobee is limited
		due to the current design and capacity of the regional water
		management system. Alt 4K2 project components of the CEPP will reduce the magnitude and duration of regulatory flood control
		releases sent to the Northern Estuaries from Lake Okeechobee by redirecting an average annual 210,000 acre feet of water through the
		central Everglades system. The USACE acknowledges that the CEPP
		is a great first step in reducing undesirable discharges to the
		Northern Estuaries and that additional actions will be needed to
		resolve all of the undesirable conditions the estuarine communities
		experience. Thank you for your support of CEPP.
CITIZEN-107	We support CEPP for the Indian River Lagoon estuary. Please do it	Thank you for your comment. Please see response to comment
(CM)	now.	CITIZEN-7 above.
	Do not delay.	
CITIZEN-108	The actions of the Army Corps of Engineers, at the direction of the	The existing C&SF Project is designed to discharge the majority of
(SI)	United States Government, over many years, has created a	Lake Okeechobee's flood control releases to the northern estuaries.
	unacceptable situation. By not allowing the water to flow South	The ability to move water south from Lake Okeechobee is limited
	through the Everglades has resulted in a level of pollution which is	due to the current design and capacity of the regional water
	destroying the rivers and estuary. You as engineers should be able	management system. Alt 4R2 project components of the CEPP will
	to see what the results are and should be more lorceful in recommending changes to the way Big Sugar and developers have	reduce the magnitude and duration of regulatory flood control releases sent to the Northern Estriaties from Take Okeechohee by re-
	joined forces to destroy our Planet, Earth. My plea is that the Army	directing an average annual 210,000 acre feet of water through the
	Corps of Engineers make every effort to implement the Central	central Everglades system. The USACE acknowledges that the CEPP
	Everglades Plan Project as soon as possible and not allow this	is a great first step in reducing undesirable discharges to the
	abomination continue. Now is the time to act! Please make every	Northern Estuaries and that additional actions will be needed resolve
	effort to help correct this ongoing problem which is destroying our	all of the undesirable conditions the estuarine communities
	environment and our ecosystem.	experience. Thank you for your support of CEPP,
CITIZEN-109 (L)	Finalize CEPP now! The future of the St Lucie Estuary, Caloosahatchee Estuary and the Everglades is in jeopardy!	Thank you for your comment. Staff will work as expeditiously as possible to complete the Chief of Engineer's Report for submittal to

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	support CEPP. Don't let it be delayed. Send the water where it belongs via sheet flow and cleansing areas south from the lake. It	the Assistant Secretary of the Army for Civil Works and OMB for administrative review. This will ornin mon completion of the State
	won't solve the problem, but it is a very important step. Do this	and agency review of the Final CEPP PIR/EIS.
	now. Include CEPP in the Water Resources Bill that Congress is considering.	
CITIZEN-110 (NT)	Finalize CEPP now !!!!!!	Thank you for your comment. Please see response to comment CITIZEN-7 above.
(CC)	I believe CEPP and CERP are both well intentioned but the big problem will be paying for it. Our nation's debt is nearing 17 trillion dollars. As much as I'd love to see the Everglades restored the price tags is way too much right now. I know that sounds very negative of me but it's true.	Thank you for your comment.
CITIZEN-112 (KW)	Finalize CEPP NOWOur lagoons and waterways are dying for your protection. So is our economy. So is our health. We cannot put this on the back burner any longer. Do the right thing after so many years of doing the wrong thing. The clock is ticking on this and the citizens demand action. All hands on deck, roll out for Florida.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undestrable amounts of freshwater from Lake Obsechobe are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. Please see response to comment CITIZEN-7 above regarding the project schedule.
CITIZEN-113 (TFC)	Why is it so difficult for our government to do the right thing? Our politicians and agencies inundate us with meetings and deadlines and acronyms to convince us that progress is being made. Yes, we all should attend those meetings, but most of us have jobs or small businesses, kids and parents that we must attended to first. It is not that we don't care, we do desperately. How many meetings and rallies are enough before action is taken. We are not lobbyists or lawyers who show up at every one of these "dog and pony" shows. We are not paid by those looking to keep the status quo. We are looking to our government to protect the people's interest over those who would further denigrate our environment for one more dollar earned in greed. It is now time to stop meeting and having abilitary deadlines and creating one more program that will be known by one more acronym. Our government now needs to	The USACE is committed to completing an expedited planning study to meet the objective and constraints of the CEPP. The planning process for CEPP has involved multiple state and federal agencies as well as substantive public participation via public meetings in order to ensure consideration has been provided to all beneficial and adverse effects of the project. After receiving Congressional authorization and appropriations, USACE will commence construction.

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	enact relief for our sickened environment. Instead of spending money on bombing Syria or Iran how about we fund the restoration of our Everglades. We need the Central Everglades Plan Project funded now.	
CITIZEN-114 (CC)	Please do everything you can as quickly as you can to fix this Lake Okeechobee majority overflow from heading East and West thru St Lucie River and the Caloosahatchee. Make the land owners up stream (Orlando and around Lake	Thank you for your suggestions. While CEPP makes great strides in providing benefits to the Greater Everglades ecosystem and helps redirect some Lake Okeechobee regulatory releases south, the USACE acknowledges that additional actions are needed to achieve
	Okeechobee) use their own property to hold their run off until it percolates into the ground water. Iknow SFWMD. NO more polluted water into Lake O. Iknow SFWMD.	the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
	Finish the Lake O dike re-inforcement quickly — so it can hold more it of water. This you guys! But that land from US Sugar and start building STA's I know	
	SFWMID. Finish the pump stations on south end of the Lake to let water move south. I know SFWMID.	
	Be more flexible with the water release schedule. please help!!!	
CITIZEN-115 (JM)	PLEASE put a stop to contaminating the Rivers and the Lagoon. Enough is enough. We need action NOW!	Thank you for your comment. Please see response to comment CITIZEN-7 above. The Recommended Plan does address the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries; however the USACE acknowledges that additional actions are needed to improve conditions for estuarine communities within the Northern Estuaries.
CITIZEN-116 (LB)	We strongly support fast-tracking CEPP to send water south from Lake Okeechobee!	Thank you for your comment. Please see response to comment CITIZEN-7 above.

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COMMENTER	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
CITIZENS-117-	The Central Everglades Planning Project (CEPP) is of utmost	Thank you for your comment. Please see response to comment
121	importance to Floridians. It must be finalized in time to be included	CITIZEN-7 above,
(NP, KL, IG, SE,	in the Water Resources Development Act. We cannot stand by and	
KT, MG, ED,	let the troubles that have plagued Florida's estuaries continue. Our	
LH, CS, HM,		
DP, DV, MR,	the state of Florida. Funding and completing CEPP so that water	
MS, EA, SP,	can be moved south is a major component of the solution to our	
MG, IG, DC	water woes. I implore you, finalize CEPP and make the October	
	deadline. We are counting on you to do so.	
CITIZEN-122	I urge you to keep progressing with CEPP. Our rivers, lagoon and	The Recommended Plan addresses the need to restore ecosystem
(AL)	estuary cannot take another season of filth from Lake O.	function in the Northern Estuaries by reducing the number and
		severity of events where undesirable amounts of freshwater from
	The wildlife that lives there are dying, but you know this already so	Lake Okeechobee are discharged into the estuaries. The USACE
	please help our rivers.	acknowledges that additional actions are needed to achieve the
		restoration envisioned in CERP and to help reduce turbidity,
		sedimentation, and moderate unnatural changes in salinity that are
		extremely detrimental to estuarine communities.
CITIZEN-123	As a resident and property owner in Martin County, and as an	The Recommended Plan addresses the need to restore ecosystem
(AO)	advocate for protecting and preserving in the best way possible our	function in the Northern Estuaries by reducing the number and
	natural environment, I ask that you confirm and proceed with CEPP	severity of events where undesirable amounts of freshwater from
	now. Delaying and further studies only serve to make a bad	Lake Okeechobee are discharged into the estuaries. The USACE
	situation worse, and the present situation with Lake Okeechobee,	acknowledges that additional actions are needed to achieve the
	the rivers and estuaries, and The Everglades needs your decisive	restoration envisioned in CERP and to help reduce turbidity,
	action now, not later.	sedimentation, and moderate unnatural changes in salinity that are
		extremely detrimental to estuarine communities.
CITIZEN-124	To all ACOE personnel entrusted with the power and responsibility	Thank you for your comment. Please see response to comment
(SW)	to enforce mandated projects,	CiTiZEN-7 above.
	As humans, we can live 30 days without food, 3 days without water	
	and 3 minutes without air. This should determine our values!	
	Polluted water damages our ecosystem and our economy and	
	threatens the survival of life in the form of plants, animals and	
	humans. It doesn't get any more simple or real than this. The	
	mathematical fact that growth (eg: toxic algae) occurs at an	
	exponential rate, which also means so does destruction or decay.	
	Delaying action on this already-mandated course of action will	
	result in exponentially-increasing costs and incliner complications as	

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COMMENTER	COMIMENTER AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
	well.	
	We have created this situation from 30 years of unenlightened engineering, political paralysis and corporate corruption. This must and you have the dury to draw the line. The Central	
	Everglades Planning Project (CEP9) must be finalized in time to be included in the Water Resources Development Act. As stewards of	
	our land and resources, we cannot watch our estuaries die. Water mite flow to sunnort our livelihands health and home. Funding and	
	completing CEPP is part of a broader solution that allows the	
	natural southern movement of water to be restored. Resonant vortex action and plant filtration allows water to be self-cleaning, it	
	is a beautifully-designed natural process from which we could learn	
	and which we should support. On behalf of my family, other	
	residents, tourists, fish, fauna and fowl I respectfully demand that	
	you finalize CEPP and make the October deadline. We are counting	
	on you to do so,	
CITIZEN-125	CEPP is "Central Everglades Plan Projects" to send more water	Thank you for your comment. Please see response to comment
(m)	south from the Lake. It won't solve the problem, but it is a very	CITIZEN-7 above.
	important step. The deadlines are very tight to get it approved and	
	then included in the Water Resources Bill that Congress is	
	considering. There are expected to be attempts to stall/derail it.	
	Thank you for your work in being a part of the solution.	
CITIZEN-126	Finalize CEPP now. We fully support it. PLEASE ~ Don't let it be	Thank you for your comment. Please see response to comment
(CB)	delayed!	CITIZEN-7 above.
	CEPP is to send more water south from the Lake and it won't solve	
	this huge problem, but it is a very important step. The deadlines	
	are getting very tight to get it approved and then to have it included	
	in the Water Resources Bill that Congress is considering. Of course,	
	there will be expected attempts to derail this, but we sincerely hope	
	you listen to the people of this wonderful State and follow through	
	to save our rivers.	
CITIZEN-	CEPP is a very effective plan that will help a lot of people and the	Thank you for your comment.
127(AH)	environment, I'm behind the movement 100%	
CITIZEN-	the everglades are very important and must be saved CEPP is the	Thank you for your comment.
128(TB)	best chance they've got at the moment	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
(BS)	I want you to know that I fully support your finalizing the CEPP now. Getting these projects approved, funded, and underway is vital to sending more water south from Lake O thereby reducing the stress on the St. Lucie and the Caloosahatchee Rivers. Approval of the CEPP and then getting it included in the Water Resources Bill is one of the important steps that must be taken for protecting and revitalizing our rivers and their natural habitat. I personally wade fish the lower reaches of the Saint Lucie and Indian Rivers and have been dismayed by the damage done to the rivers and the ecosystem by the fresh water discharges this year.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesitable amounts of freshwater from Lake Okechober are discharged into the estuaries. The USACI acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. Please see response to comment CITIZEN-7 above regarding the project schedule.
CITIZEN-130 (SM)	Please finalize this program now. It is very much needed to alleviate the water quality problems being experienced on the Treasure Coast and elsewhere.	The Recommended Plan addresses the need to restore ecosystem function in the Northem Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. Please see response to comment CITIZEN-7 above regarding the project schedule.
CITIZEN-131 (PG)	The current policy of using the St.Lucie River as the sewer system for Lake Okechobee is destroying our community and our businesses. We can not wait another 10 years for a mere 25% reduction of these discharges, I think that a better plan would be to deepen and widen the Palm Beach Canal to equal the current volume going east and west. A tunnel could be constructed from the end of the canal under Lake Worth and the barrier island out to the continental shelf about 5 miles offshore. With the aid of a pumping station the water could be dispersed into the Gulf Stream current and away from the Florida shoreline. This is the only location in Florida that has deep water and the Gulf Stream current within a few miles of land. I believe that the environmental impact would be less than the current discharge policy. Please consider this idea. Thank you.	Thank you for your suggestions. While CEPP makes great strides in providing benefits to the Greater Everglades ecosystem and helps reclirect some Lake Okeechobee regulatory releases south, the USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
CITIZEN-132 (LR)	I believe that CERP is a great plan and hope it gets passed. I especially like how balanced it all is in concerns with flood management and sending water south, since balance is the key to	Thank you for your comment. Please see response to comment CITIZEN-7 above.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	restoring Florida back to a somewhat natural state. I hope that	
	CERP is implemented soon, and our environment can start	
	improving.	
CITIZEN-133	Please keep us at your utmost highest when speaking to the	Thank you for your comment.
(RB)	politicians - the river has always been at bottom of totem	
	pole(that's baffling- allowing a river to die)- please we should be	
	at the top. Thank you.	
CITIZEN-134	The news is that the Corps is willing to implement the plan to send	Thank you for your comment. Please see response to comment
(RLP)	water from Lake O to the south. Please get CEEP approved and	CITIZEN-7 above,
	passed. You may not hear from many residents because they don't	
	have this email address or they don't know about your hearings but	
	you can read editions of the News, especially today's (Sept. 20)	
	when the editor chose to print many of their letters. Residents of	
	Martin County need healthier waters, estuaries and marine life.	
CITIZEN-135	Please don't delay, it is too important to the Saint Lucie River and	Thank you for your comment. Please see response to comment
(17)	the Indian River Lagoon, its wildlife and the businesses that depend	CITIZEN-7 above regarding the project schedule.
	on its health. ACT NOW	
CITIZEN-	It is imperative that the destruction of the Lagoon be stopped AT	The Recommended Plan addresses the need to restore ecosystem
136(GK)	ONCE! Stop dumping POISON into the St. Lucie River, the horrific	function in the Northern Estuaries by reducing the number and
	results of this systemic poisoning will be felt for generations.	severity of events where undesirable amounts of freshwater from
		Lake Okeechobee are discharged into the estuaries. The USACE
		acknowledges that additional actions are needed to achieve the
		restoration envisioned in CERP and to help reduce turbidity,
		sedimentation, and moderate unnatural changes in salinity that are
		extremely detrimental to estuarine communities.
CITIZEN-137	I have several concerns and questions regarding CEPP. I would	The Recommended Plan depends on SFWMD owned and operated
(KCT)	greatly appreciate an answer to these. 1) What will you do to help	water quality treatment facilities (STAs 2 and 3/4) and is integrated
Comment 1	clean the water to 10 ppb phosphorus? If this is not attained, will	with the yet to be constructed A-1 FEB included in the SFWMD's
	this halt any CEPP project flowing water in to the Everglades?	Restoration Strategies Project (SFWMD 2012). All features of the
		Restoration Strategies Project must be completed and meet State
		water quality standards prior to initiating construction of most CEPP
		project features. To ensure that the Recommended Plan meets state
		water quality standards, discharge permits with associated effluent
		limits will govern discharges from the State facilities to WCA 3.
		Construction of CEPP project features cannot proceed until it is
		determined that construction and operation of the feature: 1) will
		not cause or contribute to a violation of State water quality

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		standards 2) will not cause or contribute to a violation of any applicable water quality permit discharge limits or specific permit conditions, and 3) reasonable assurances exist that demonstrate adverse impacts to flora and fauna in the area influenced by the project features will not occur. Appendix A water quality compliance must be addressed for new project water entering ENP. For additional chaffication please refer to &carton 6.3 1 and 6.3.2
CITIZEN- 138(KCT); Comment 2	2) Can you guarantee the water will attain 10 ppb level of phosphorus? I understand my tap water has 70 ppb phosphorous and rain water is 17 ppb phosphorous. I am extremely stringent level will stop any chance of us being able to flow water south in to the Everglades. How do you clean water cleaner than rain? Will this strip other necessary untrients from the water for other life in the Everglades? Duke University had a study that showed 20 ppb was actually quite beneficial to the Everglades. Perhaps this requirement level needs to be re-visited.	Please see response to comment CITIZEN 137 above.
	http://www.law.miami.edu/librarv/everglades/lawarticles/fsu.landuse vol17_1_rizzardf%20(86kb).pdf I can see that 10 ppb might be able to be obtained in dry seasons, but in rain events, when we really need to discharge the water into the Everglades, how do you clean the water cleaner than the rain??	
CITIZEN-139 (KCT); Comment 3	3) With over \$60 billion in back logged projects, how will CEPP possibly get done by 2029? It is not even authorized yet. You stated at the meeting in Stuart that newly authorized projects will not catapult over these other projects. With that being the case, you have to fund and complete these other \$64 billion in projects first, correct? Again, how will CEPP be completed by 2029?	Thank you for your comment. Staff will work as expeditiously as possible to complete the Chief of Engineer's Report for submittal to the Assistant Secretary of the Army for Civil Works and Office of Management and Budget for administrative review. This will occur upon completion of the State and agency review of the Final CEPP Integrated IR and EIS. Construction will be dependent upon Congressional authorization and funding.
CITIZEN-140- 152 (GL), (MP), (KC), (PMB), (CW), (AZ), (KM), (SC),	" Moving clean water south from Lake Okeechobee is the key to solving problems for both the National Park and the coastal estuaries. Lurge you to go forward with CEPP as soon as possible"	Thank you for your comment. Please see response to comment CITIZEN-7 above.

Pertinent Correspondence Information

COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
(MS), (PB), (JS), (KM)		
CITIZEN-153 (T)	Please move the water in the only direction it can possibly flow to	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are externely detrimental to estuarine communities.
CITIZEN- 154(KP)	The damage to the St. Lucie River is a national disgrace! Moving clean water south from Lake Okeechobee is the key to solving problems for both the National Park and the coastal estuaries. I urge you to go forward with CEPP as soon as possible.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration of in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
CITIZEN- 155(DLK)	Please finish the report and send to Congress timely in order to be placed in the WRDA (Water Resources Development Act). We realize that this will be part of the solution to reduce discharges going to the St. Lucie, Indian River Lagoon and caloosahatchee Rivers that are causing extensive damage, but as one who commented put it: "This is the only game in town.' We need to start. Thank you for your work. We will also be contacting our legislators and the governor so they know how critical this is.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN- 156(LB)	My grandchildren and I enjoy the waterways on our state, as well as hiking and working on the Florida National Scenic Trail. We are pleased to see some of the cattle being removed from the river basin North of the Lake. Now, we need some water to flow south, not be channelized, but flow. Cleaner water going into the lake is necessary, but even clean water flowing into the Indian River Lagoon is killing it. Please help out Lagoon by pushing for the approval of CEPP in time for it to be included in the Water Resources Bill. I am NOT clamoring for lower taxesI want my	The FDEP is in the process of developing a Basin Management Action Plan (BMAP) for Lake Okeechobee pursuant to Section 403.067, Florida Statutes. This BMAP will be an iterative effort to address start quality issues in Lake Okeechobee. Staff will work as expeditiously as possible to complete the Chief of Engineer's Report for submitted to the ASA (CW) and OMB for administrative review. This will occur upon completion of the State and agency review of the Final CEPP PIR/EIS. Construction of project.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	taxes to help clean up our environment, which helps us alland I VOTE!	features will be dependent upon Congressional authorization and funding.
CITIZEN- 157(DS)	Moving water south from Lake Okeechobee is key to improving the estuaries. Please make this happen.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN- 158(K&D)	We need to get this moving. CEPP must be passed immediately and start the years it will take to correct the horrible damage done.	Thank you for your comment. Please see response to comment CITIZEN-7 above.
CITIZEN- 159(PHS)	lurge you to finalize the Central Everglades projects and send more water south from the Lake in order to relieve the ongoing damage to our river ecosystems.	Thank you for your comment.
CITIZEN- 160(MTS)	Thank you for the wonderful information that was given at the Sept. 17th Public Meeting. I am very much in favor of the CEPP, and while like many others here in Eort Moors wish for more improvement.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where inclesivable amounts of freehwater from
	in the Calcostantchee River issues, do support this work and hope that it will eventually help restore the Everglades region to its proper condition.	Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CRP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
CITIZEN-161 (MR)	Please stop polluting the St Lucie River and Indian River Estuary. Please start sending Lake O releases south.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are dischanged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, estimation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
CITIZEN- 162(MH)	I served on the Governor's Commission that helped create CERP and the team that created the IRL—South Plan. I am an enthusiastic supporter of CEPP. I would not like to see it held up. I think the most important issue is meeting WRDA dearlines.	The Executive Summary, Section 6.8 and Annex B has been edited since the release of the Draft PIR/EIS for public review on August 29", 2013. The basic premise behind the CFRP IRL-S Project is to redistribute the water released to tide to more desirable locations in the St Lucie Estuary, Specifically, flows are redistributed away from the St Lucie Estuary, Specifically, flows are redistributed away from the St Az Ernetries on the C.23 and sinder disperienced.
	ueaumies. I do have a specífic concern that I would like to see addressed or at least explained.	the 3-57 and 3-40 structures of the C-25 stains and either unected north towards the Ten Mile Creek upstream of the North Fork of the St Lucie River or south thowards the C-44 Canal. Up to 900 cfs of the flood releases to tide (excess water) are directed away from C-23 control structures to the C-23/24 reservoirs. Water is then released

COMMENT	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	"B.3.1.2 Transfer of Existing Legal Users Water Supply Source	from the reservoirs through the STA towards the North Fork at a rate
		of 200 cfs or less to limit potential flooding and to help meet the
	Included in the future without (IORBL1) and CEPP Alt 4R2	needs of fish and wildlife. Water redirected south is stored in the C-
	operations is utilization of the IRL-S project C-44 Reservoir to	44 Reservoir/STA and released to the South Fork via S-80 to tide at
	backflow water to Lake Okeechobee when stages in the C-44 Canal	off-peak times to make room for additional C-23 and C-44 basin
	permit. Typically water is backflowed when stages in Lake	runoff,
	Okeechobee fall below the Baseflow sub-band as identified in LORS	
	2008. The operations of the CEPP Alt 4R2 expand on this concept to	With the CEPP TSP, these basic premises of redistribution are also
	backflow water captured in the C-44 Reservoir including water	followed. Flood releases through the C-23 control structures are still
	conveyed from the C-23 Canal and Basin. The additional volume of	sent north to the North Fork, however, releases are consistent with
	water backflowed from the C-44 Reservoir averages 21.3 kAF on an	the updated target and water reservation - 130 cfs at the Gordy Road
	annual basis, the difference between Alt 4R2 and IORBL1 (37.6 kAF	structure on Ten Mile Creek. Under CEPP the North Fork reservation
	and 16.3 kAF, respectively). Although Lake Okeechobee would	target is met approximately 100% of the time, which then allows
	continue to be the source of water for agricultural users within	excess C-23 Basin water to be sent south to the C-44 Reservoir/STA
	LOSA, this operational change is considered a partial water supply	until it is filled. The transfer from the C-23 Basin to the C-44
	source transfer since the C-44 Reservoir does not contribute to Lake	Reservoir/STA is approximately 6 k ac-ft/yr. However, instead of
	inflows in the IORBL1."	discharging all water stored in the reservoir to tide via the S-80, a
		portion of the water stored in the C-44 Reservoir/STA is retained in
	There are no concerns about backflowing water from C44 and the	the regional system and back flowed to Lake Okeechobee via C-44
	C44 reservoir.	Canal. Retaining this water does benefit existing legal uses of water
		permitted to withdraw surface water from Lake Okeechobee. It does
	My concern is that here and in other sections of the Plan it	not benefit agricultural users in the C-23 Basin.
	references transferring water from the C23 Canal and Basin to Lake	
	Okeechobee. I assume the transfer is from the small canal that is	Backflowing water from the C-44 Canai to Lake Okeechobee is
	shown in the IRL Plan as connecting C23 and C24 with one way	consistent with today's operations of the lake (LORS 2008) and
	pumps to the south.	SFWMD water shortage operations (LOWSM) and does not affect
		permitted allocations. It only improves the ability to meet existing
	Inclusion of this canal in IRLSouth was controversial since its	permitted demands by retaining more water in the regional system
	original purpose was to move water north to C23 in drought times.	that is available to agricultural users. The improvement to permitted
	The C23 basin is overcommitted and has no backup water supply in	users is an additional 21 kac-ft/yr on average being back flowed from
	drought years. They would like a connection to Lake Okeechobee.	C-44 Canal to Lake Okeechobee with CEPP in place. This represents
	No such connection is possible for water supply since LOSA is fully	about 4 % of the average annual demand in LOSA (550+ kac-ft/yr).
	committed. Modeling showed that drought in C23 corresponded	
	with low levels in Lake Okeechobee. The idea of connecting the two	Ideas evaluated during the development of the Loxahatchee River
	basins for water use was dropped.	PIR included a Flowway 4, which takes water from the C-44 via a 50
		cfs pump and a series of existing agricultural canals to a STA on the
	A small canal with (if I remember right) 50cfs pumps was kept in the	Gulfstream property. It is discharged to either Cypress Creek or the

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	IRL Plan under the theory that it could divert high nutrient loads from entering the middle estuary at C23. Modelling showed that when the IRL Plan was fully implemented, there would be minimal use of the canal. It was never modeled for water quantity transfers.	remnant Moonshine Creek, which connects to the North Fork of the Loxahatchee River. The component was screened out during evaluation since it was not cost effective.
	You might check with Patti Gorham of SFWMD who was on the IRL team and might have a better memory than I do. Dan Haunert, who was with the District at the time, is also familiar with the issue.	The diversion of water from the C23 Canal and Basin to the C-44 Reservoir/STA is only in one direction to the south.
	Inclusion of the words "including water conveyed from the C23 basin" suggests a known water quantity benefit that has been modeled as part of the CEPP planning process.	
	I don't believe that is true and I would ask you to revise those sections of the Plan.	
CMZEN-163 (GB)	I have been an advocate for Florida wildlife for the past 30 years, having lived here since the 1980's. I used to visif Everglades National Park regularly, and I know it has deteriorated every year. Now our Indian River Lagoon and estuary is in serious peril. I live in Martin County, and this breaks my heart. Rease support the effort to restore the Park and coastal estuaries on both coasts by moving clean water toward the south from Lake Okeechobee, and discontinue the discharges that are killing our rivers. Go forward with CEPP as soon as possible and get this very serious situation on the path to resolution.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of users where undesfable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CRP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
CITIZEN-164 (LY)	WE HERE ON THE NORTH FORK OF THE ST LUCIE RIVER ARE DEVESTATED BY THE MISS YOU HAVE MADE OF OUR BEAUTIFUL ST LUCIE RIVER. EVERYTHING IS DYING. PLEASE FIX IT AS SOON AS YOU CAN.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Obechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. Please see response to comment CITIZEN-7 above regarding the project schedule.

The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are

extremely detrimental to estuarine communities.

Appendix C.3

Pertinent Correspondence Information

Thank you for your comment. Please see response to comment

CITIZEN-7 above.

Thank you for your comment. Please see response to comment

CORPS RESPONSE CITIZEN-7 above. Thank you for your comment. Please see response to comment

CITIZEN-7 above.

The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are

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AGENCY/PUBLIC COMMENT	Please send clean water south, as nature would have it, and stop polluting the St. Lucie and other east/west waterways.	PLEASE, PLEASE, PLEASE, Finalize the Central Everglades Plan Projects as soon as possible. The Corps of Engineers has a wonderful opportunity to become HEROS in the hearts of the citizens effected by the water released from the lake.	Please PLEASE PLEASE PLEASE try REAL HARD to get CEPP approved so you can get start making progress on Everglades restoration will benefit those who love and play on the St Lucie River.	I am a homeowner and boating/fishing enthusiast living on the River. I have read that the dumping of dirty water from Lake Okeechobee into the St Lucie and IRL continues and because of the heavy raise at a birth not	As you would the procure to the natural habitat of grasses and has greatly damaged the shrimp population. Once again I would urge you to move forward with the CEPP/moving the waters south as it was always intended to do to save the great natural estuaries of the St Lucie and IR.	I am a resident of Palm City and live along the St. Lucie River. Runoff from Lake Okeechobee has now killed all the fish in the St Lucie with the resultant effect that the ospreys are gone due to lack Lucie with the resultant effect that the ospreys are gone due to lack Lucie as are many if not all of the wading birds. This is an environmental disaster as far as I am concerned. We are reading every day of water borne disease due to polluted streams, rivers and lakes. Polluted water and evaporation leads to polluted air. The United States is too progressive a country to allow this to continue. Elimination of our wildlife degrades the environment for all generations and diminishes the world for our children. Please do what you can to stop the pollution of the St. Lucie and return this important estuary to its former health.	Has the Corp of Engineers considered using Green Earth Technologies to help clean the Everglades? They make products to clean environment from oil spills and other harmful pollutants. Which might be helpful for your CERP project. All their products are non-petro based and made in USA from USA sources.
COMMENTER	CITIZEN-165 (PG)	CITIZEN-166 (LRH)	CITIZEN-167 (GD)	CITIZEN-168 (TH)		(SM)	CITIZEN-170 (M)

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contains a list and description of management measures considered including STAs, chemical precipitation, dredging of Lake Okeechobee technologies. A FEB was also considered for purposes of limited

Section E.1.1.2 (Storage and Treatment Management Measures)

extremely detrimental to estuarine communities.

for purposes of water quality treatment within the project area near primary canal intakes, and hybrid wetland treatment

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Personally, I use their motor oil - G-OIL a bio-friendly alternative to the petroleum based motor oil, bar/chain oil and cleaning products.	water quality treatement.
	All work good.	Storage and treatment of new water will be possible with the construction of a 14,000 acre FEB and associated distribution
	I am not affiliated with Green Earth Technologies.	features on the A-2 footprint within the EAA. Operation of the A-2 FR would be integrated with the future operation of the State's
		Restoration Strategies features, including the A-1 FEB and the States existing STA 2 and STA 3/4 facilities.
CITIZEN-171	I am a member of the Broward County Airboat, Halftrack, and	A summary of the anticipated hydrologic effects of the CEPP action
(SL)	Conservation Club, though I am speaking for myself and not the	alternatives is provided in Table 5.1-2 for CEPP Alternatives 1
7 1100		dirough 4 and ill rable 3.2.1 for Attenuative 4n and the 13r Attenuative 4R2. The summary of regional hydrologic differences
		includes quantitative comparisons between the ECB and FWO and
	All in all, I believe the plan is good and a lot of positive work has	ed on th
	gone into it. My biggest concerns about the plan are as follows:	Simulation Model (RSM)-BN and RSM-GL CEPP modeling
	1) The death and duration of water in the MCAs We need to	determination of the directionality of hydrologic chance
	~	(improvements and/or adverse hydrologic change) within each
	long they will be held at that level.	specified geographic region is principally based on the results of the
		ecological evaluation, which are described in Section 4.2.2, and
		Section 4.6.2. The anticipated hydrologic effects are described for
		the following monitoring gauge locations throughout the WCAs,
		which are representative of the spatial variability of CEPP hydrologic
		changes: 2A-17 (WCA 2A); 2B-Y (WCA 2B); 3A-NW (Northwest WCA
		3A); 3A-NE (Northeast WCA 3A); 3A-3 (East-Central WCA 3A); 3A-4
		(Central WCA 3A); 3A-28 (Southern WCA 3A); and Site 71 (WCA 3B).
		Complete supporting documentation for the summary of anticipated
		hydrologic effects, including stage duration curves for the indicated
		monitoring gauge locations, is provided in CEPP PIR Appendices C.1
		(ECB versus FWO); C.2.1 (Alternatives 1 through 4 versus FWO); and
		C.2.2 (Alternative 4R and Alternative 4R2 versus FWO). For localized
		hydrologic effects at other non-specified WCA locations or daily
		stage hydrograph information, this information is available for
		Alternative 4R and Alternative 4R2 as part of the complete set of
		KSIVI-BN and KSIVI-GL Hydrologic model performance measure output

Pertinent Correspondence Information

COMMENTER	COMIMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		that is posted on the Everglades Plan public web site for the CERP, as indicated in the CEPP PIR main report: http://www.evergladesplan.org/pm/projects/proj 51 cepp.aspx
CITIZEN-171	2) Destruction of tree islands and habitat. We have seen	The northwest region of WCA-3A has become a dense bank of willow
(SL) Comment 2	instriand for decades that it takes as little as six weeks of held night water to begin eroding tree islands in the area. WCA 2a is a prime	and does not provide the elevation mosaic of the plant diversity needed to support aquatic animals, sloughs and tree islands. And,
	example of this. There are few, if any, tree islands remaining in	this region does not currently support CERP key indicators of
	Area 2a. If the water is held too high in Area 3 it's only a matter of	restoration, such as prey-based fauna (i.e., crayfish and fish). CEPP
	time before we destroy the entire area. I consider the works to be Everglades even more than the actual Everglades National Park.	and the Adaptive Management plan are planning on using life to create differential flow paths that will accentuate sheetflow and
	Destruction of this area due to high water is the complete opposite	minimize excessive ponding. Differential flow paths will "jump-start"
	of Everglades Restoration. Additionally, I don't believe it is	the elevation mosaics needed to restore the ridge-slough-tree island
	necessary to destroy any existing habitat to further the restoration	landscape. The CEPP plan recognizes that a regional approach to
	plan. If backfilling portions of the Miami Canal is necessary to the	restoration will require that tree islands be monitored for peat
	plan, existing habitat and tree islands shouldn't be destroyed to	accumulation rates, that regions such as NW-WCA-3A will require
	provide the fill.	incremental adaptive restoration because they are extremely
		altered, and that tree islands need to be preserved and restored.
CITIZEN-171	3) Furbearing animals and Wading Birds. The furbearing animal	Section 5.1.6.5 states that CEPP implementation may negatively
(SL)	and wading bird population in the area will be decimated if the	affect some mammals dependent upon upland habitat. Due to
Comment 3	water is held too high for too long. Plain and simple, too much	increased water flow and changes in water distribution it is
	water destroys their home.	anticipated that overdrained areas in northern WCA 3A will be
		rehydrated, triggering a vegetation transition from upland to
		wetland habitat. Although mammals occurring within the action
		area are adapted to the naturally fluctuating water levels in the
		Everglades, there is an increased potential for this vegetation
		transition to have a moderate adverse effect negatively affect
		mammals using upland habitat. Similar language about mammals
		that are dependent upon upland habitat is included in the third
		paragraph of Section 5.2.6.5,
CITIZEN-171	4) The timing of the projects. It seems that a lot of focus is being	Section 6.7.1 (Implementation Phases and Construction
(Sr)	put on preparing the northern parts to allow more water in. We	Sequencing) has been edited since the release of the Draft PIR/EIS
Comment 4	should be focusing on making sure we have ways to safely and	for public review on August 29th, 2013. Project features are grouped
	efficiently get the water out before we even consider pumping	into three separate Project Partnership Agreements (PPAs) based
	more in. The current high water closure is prime example of this; if	upon the spatial distribution of the project features and the locations
	the getaway capacity is increased, as per the plan, there is a very	within the CEPP study area where separable hydrologic and
	good chance we wouldn't have the closure and irreversible damage	environmental benefits would accrue. These groupings include a
	caused by the water that is happening right now.	PPA of project features in northern WCA 3A (PPA North), a PPA of

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Appendix C,3

COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		project features in southern WCA 3A, 3B, and ENP (PPA South), and a final PPA which provides the new water and required seepage management features that benefits the entirety of the study area (PPA New Water). The Final PIR/EIS presents two potential implementation sequencing scenarios that are possible with the three separate PPAs currently identified: 1) PPA North → PPA South → PPA New Water and 2) PPA South → PPA North → PPA New Water.
		The provided comment mentions features in PPA South. The Final PIR(FIs) acknowledges that PPA North or PPA South are reversible and either may be constructed first given that project dependencies noted in Table 6-10 of the Draft PIR(FIS) are met.
CITIZEN-171 (SL)	Water quality to the ENP. We have heard for a long time now that Everglades National Park will take as much water as it can get.	Water quality standards for the park are set by Florida statute and
Comment 5	This is a scary proposition because of the water quality guidelines for pumping water into the park. As we know, the guidelines become stricter as the park takes more water. There needs to be a plan in place to make sure that:	Federal Clean Water Act. The Federal and State partners will ensure that CEPP will be in compliance with all applicable water quality standards in the Park and elsewhere within the study area.
	a. Park standards can be met	State and Federal agencies currently participate in weekly meetings to discuss the implications of planned water management actions on water quality, fish/wildlife resources, flooding, and water supply.
	b. If the park decides to stop taking water due to their stringent standards, we have a way to prevent pooling of water in Area 3 and sheet flow stoppage. This reflects back to focusing on getting the water out before pumping it in.	
CITIZEN-171	6) Further interaction with the public. To this point, this	Thank you for your comment regarding the Civil Works Program -
(3L) Comment 6	commentary has been fantastic. Task that you continue to keep the	prior study implementation. This study process continues to use quality planning practices and is intended to increase public
	public informed and continue to take public input as the plan progresses. Our love for the Everglades knows no bounds and we	participation, broaden public input and shorten the timeframe for completion of a pre-authorization (planning) study.
	are always willing to give our opinion and assist the plan in any way we can to secure the health of the Everglades for future	
	generations to enjoy as we do.	
CITIZEN-172 (AG)	Florida Bay First	Alt 4R2 improved hydrologic conditions in Florida Bay in comparison to the FWO by significantly increasing overland flows. Water flowing
Comment 1	As a south Floridian, almost native, it is quite frustrating to see how through SRS reaches Florida Bay through the following routes: 1)	through SRS reaches Florida Bay through the following routes: 1)

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	the restoration of the Everglades has not progressed over the last	surface water that enters the near-shore waters at the mouth of
	15 years. The lack of positive forward movement on restoring the	Whitewater Bay may flow around Cape Sable and into western
	Everglades and more specifically the Florida Bay, brings into	Florida Bay, 2) surface water that flows north and west of the Rocky
	question the validity of this current plan and the commitment of	Glades may seep into southeastern Florida Bay, and 3) surface water
	those involved and in a position to make this happen.	can enter Florida Bay via Taylor Slough by seeping under the central
		and eastern Rocky Glades. Freshwater deliveries through each of
	With that said, it would also appear that throughout the Draft PIR	these routes have decreased with drainage of the Everglades over
	there are various sections that create a sense that the models being	the last century. Only the first of these routes likely has influence on
	used to predict the outcome may fall well short of the desired goals.	salinities in Florida Bay today. Alt 4R2 provided increased flows
	It has always been the goal of restoring the Everglades to have the	within central SRS in comparison to the FWO with annual flow
	quantity and timing of freshwater restored to the Florida Bay to the	increases above the FWO of 168,000 acre-feet on average per year.
	maximum amount possible with all of the other competing	Alt 4R2 provided increased flows within Taylor Slough in comparison
	interests. The current models, as proposed in CEPP call for	to the FWO; however, increases in flow were not as significant as
	significant habitat unit increases from water being moved through	increases in observed flows in SRS. Alt 4R2 provided increases of
	Northeast Shark River Slough. The claim is that this freshwater will	23,000 acre feet per year on average within Taylor slough relative to
	flow out the river system, around Cape Sable and effect ecological	the FWO. Improved hydrologic conditions in central SRS directly
	benefits to seagrass in an area of the Florida Bay that is hypersaline.	resulted in improved salinity conditions in Florida Bay. Although Alt
	If this were even possible, it does not appear that the information	4R2 provides a significant increase in freshwater needed for the
	addresses the many, many basins in the Florida Bay that prevent	restoration of the central Everglades, it is recognized that additional
	water movement from one basin to the other due to the shallow	actions are needed to achieve the restoration envisioned in CERP.
	seagrass/mud flats in the Bay. To effect change in the places most	Additional freshwater flows of 500,000 to 700,000 acre-feet per
	needed to create the ecological lift that the Florida Bay demands,	year, annual average into SRS and Taylor Slough may be necessary to
	this freshwater would need to be placed into Taylor Slough to begin	bring Florida Bay to full restoration. Please reference Section G.2.3
	to meet the claims of habitat benefits as claimed in the PIR.	and G.2.7 of Appendix G (Benefit Model) for further information on
בירה ואסירושנט	4-44-433	flows to Florida Bay.
CITIZEN-T/Z	based oil tile current piant, the natural ecological benefits that are	ricase see response to chrizeit-1/2, comment above. Also please
(AG)	being portrayed in the rith for the riorida bay should be removed. In	further information on flowers Election Bay
7 11 11 10 10 10 10 10 10 10 10 10 10 10	benefits for the Florida Bay, the plan should also address the	
	placement of freshwater into Taylor Slough to increase the quantity	
	and duration of freshwater flows to the Bay. This is not a new	
	concept and is one that should prevent CEPP from being approved	
	in its current state.	
CITIZEN-172	My words do not convey the importance of either placing	Please see response to CITIZEN-172; Comment 1 above. Also please
(AG)	measureable and significant amounts of freshwater into Taylor	reference Section G.2.3 and G.2.7 of Appendix G (Benefit Model) for
Comment 3	Slough or removing the habitat benefits to the Florida Bay from	further information on flows to Florida Bay.
***************************************	CERT due to tile piaceillent of auditional freshwater filto NESS, it is	

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	astounding to make the connection of placing freshwater into NESS and that water adding benefits to the Florida Bay.	
	After spending the last 20 years in the coastal waters of the Florida Bay, I have seen the benefits of limited increases of freshwater during above normal rainy seasons and the positive change in function of the seagrass meadows being delivered from the coastal fringe and not freshwater coming from the riverine systems.	
	Florida Bay First.	
CITIZEN-173 (RS) Comment 1	I am a member of the Airboat Association of Florida though I am speaking for myself and not the club. I am a native of Miami and have seen many changes in the Everglades that concern me. I would like to add some public commentary about the CEPP plan and what I have seen at the CEPP meetings.	Thank you for your comment. Please see response to comment CITIZEN-171 Comment 1 above.
-	All in all, I believe the plan is good and a lot of positive work has gone into it. My biggest concerns about the plan are as follows: 1) The death and ditration of water in the WCAs. We need to	
	% % 1	
CITIZEN-173 (RS) Comment 2	Institution of tree islands and habitat. We have seen firsthand for decades that it takes as little as six weeks of held high water to begin eroding tree islands in the area. WCA 2a is a prime example of this. There are few, if any, tree islands remaining in Area 2a. If the water is held too high in Area 3 it's only a matter of time before we destroy the entire area. I consider the WCAs to be Everglades even more than the actual Everglades National Park. Destruction of this area due to high water is the complete opposite of Everglades Restoration. Additionally, I don't believe it is necessary to destroy any existing habitat to further the restoration plan. If backfilling portions of the Miami Canal is necessary to the plan, existing habitat and tree islands shouldn't be destroyed to provide the fill.	See response to CITIZEN-171 Comment 2 above.
CITIZEN-173 (RS)	3) Furbearing animals and Wading Birds. The furbearing animal and wading bird population in the area will be decimated if the	See response above for CITIZEN-171 Comment 3.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
Comment 3	water is held too high for too long. Plain and simple, too much	
	water destroys their home.	
CITIZEN-173	4) The timing of the projects. It seems that a lot of focus is being	See response above for CITIZEN-171 Comment 4.
(RS)	put on preparing the northern parts to allow more water in. We	
Comment 4	should be focusing on making sure we have ways to safely and	
	efficiently get the water out before we even consider pumping	
	more in. The current high water closure is prime example of this; if	
	the getaway capacity is increased, as per the plan, there is a very	
	good chance we wouldn't have the closure and irreversible damage	
	caused by the water that is happening right now.	
CITIZEN-173	5) Water quality to the ENP. We have heard for a long time now	See response above to CITIZEN-171 Comment 5.
(RS)	that Everglades National Park will take as much water as it can get.	
Comment 5	This is a scary proposition because of the water quality guidelines	
	for pumping water into the park. As we know, the guidelines	
	become stricter as the park takes more water. There needs to be a	
	plan in place to make sure that:	
	a. Park standards can be met	
	 b. If the park decides to stop taking water due to their stringent 	
	standards, we have a way to prevent pooling of water in Area 3 and	
	sheet flow stoppage. This reflects back to focusing on getting the	
	water out before pumping it in.	
CITIZEN-173	6) Further interaction with the public. To this point, this	Thank you for your comment regarding the Civil Works Program -
(RS)	interaction with the public and the ability to make public	Pilot Study Implementation. This study process continues to use
Comment 6	commentary has been fantastic. I ask that you continue to keep the	quality planning practices and is intended to increase public
	public informed and continue to take public input as the plan	participation, broaden public input and shorten the timeframe for
	progresses. Our love for the Everglades knows no bounds and we	completion of a pre-authorization (planning) study.
	are always willing to give our opinion and assist the plan in any way	
	we can to secure the health of the Everglades for future	
	generations to enjoy as we do.	
CITIZEN-174	As new avenues to divert Lake Okeechobee waters away from the	
(BL)	east and west coast estuaries are explored, please do not overlook	Thank you for your suggestions. While CEPP makes great strides in
	the potential need for C12, C10 and L8 flows SE towards and into	providing benefits to the Greater Everglades ecosystem and helps
	C51, Presently there is a development at the corner of L8 and C51	redirect some Lake Okeechobee regulatory releases south, the
	that, if approved, would remove its potential as a new filtering	USACE acknowledges that additional actions are needed to achieve
	marsh. This development needs a stay until that option can be	the restoration envisioned in CERP and to help reduce turbidity,
	explored. That is, this could be "STA-1N" or some other part of an	sedimentation, and moderate unnatural changes in salinity that are
	US-ACE / SFWIMD synergism. This could be added to CEPP by a	extremely detrimental to estuarine communities.

Appendix C.3

Pertinent Correspondence Information

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	simple pen stroke which moves CEPP's boundary about a mile or so NE.	
	I REALLY REALLY think that the lands mentioned in the attachment should be bought (US-ACE / SFWMD / FPL consortium) and converted to a filtering marsh—this will help the glades and Lake Worth Lagoon.	
	Attached is a 'short' memorandum and a set of annotated figures concerning the future of the central western communities of Palm Beach County and certain potentially disastrous impacts on the waters entering both the Everglades and Lake Worth Lagoon.	
	Additionally, rather than just complain about rampant over development, I have tried to propose viable alternatives which will not only avoid these impacts but positively influence surface water quality and also provide carbon-free electrical power to supplement the West County Energy Center.	
	I thank you for your time and consideration. (Feel free to distribute / paraphrase etc.) **See Attachment	
CITIZEN-175 (MAW)	When material is the water levels. The water levels must be kept at a correct level to ensure that the St Lucie & Caloosahatchee estuaries are not flooded like recently causing toxic algae. Also the high water levels in the WCA's to the south, causing the mammals and wading birds to not survive. When back filling the Miami Canal, it was stated that the "Islands" for the mammals would only be one and a half foot high. Due to historical high water problems, 1 1/2 feet would not be high enough. There should be plenty of fill there to make these "islands" higher, about five [5] feet would be more appropriate.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where harmful amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. Section 5.1.6.5 states that CEPP implementation may negatively affect some mammals dependent upon upland habitat. Due to
		anticipated that overdrained areas in northern WCA 34 will be rehydrated, triggering a vegetation transition from upland to

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		wetland habitat. Although mammals occurring within the action area are adapted to the naturally fluctuating water levels in the
		Everglades, there is an increased potential for this vegetation
		transition to have a moderate adverse effect negatively affect
		mammals using upland habitat. Similar language about mammals
		that are dependent upon upland habitat is included in the third
		paragraph of Section 5.2.6.5. If the tree islands are 5 feet high, it will
		be too dry for too long and the appropriate vegetation would not be
		present.
CITIZEN-176	WE NEED TO RESTORE THE EVERGLADES AND CUT DOWN ON	The Recommended Plan addresses the need to restore ecosystem
(EM)	NDS ON	function in the Northern Estuaries by reducing the number and
	IT, AND THE PEOPLE ARE SICK OF IT AND DEMAND CHANGE.	severity of events where undesirable amounts of freshwater from
		Lake Okeechobee are discharged into the estuaries. The USACE
		acknowledges that additional actions are needed to achieve the
		restoration envisioned in CERP and to help reduce turbidity,
		sedimentation, and moderate unnatural changes in salinity that are
		extremely detrimental to estuarine communities.
CITIZEN-177	Please stop dumping polluted water in Martin County. It directly	The Recommended Plan addresses the need to restore ecosystem
(BC)	effects my business, my property values (I have waterfront and	function in the Northern Estuaries by reducing the number and
	can't go into the water) Also now with the flesh eating bacteria	severity of events where undesirable amounts of freshwater from
	showing up in the ocean it seams that will be off limits soon. Stop	Lake Okeechobee are discharged into the estuaries. The USACE
	kicking the can down the road, you have had a solution for over 20	acknowledges that additional actions are needed to achieve the
	years. Just start doing it!	restoration envisioned in CERP and to help reduce turbidity,
		sedimentation, and moderate unnatural changes in salinity that are
		extremely detrimental to estuarine communities.
CITIZEN-178	As a taxpayer I find it utterly disgusting that we would first allow the	Thank you for your comment.
(99)	Sugar industry to pollute our waterways and natural land filtration	
	systems, then reward them with taxpayer money, so they can move	
	to another piece of land to pollute. Then we will take more taxpayer	
	money and clean up the old area they polluted to restore it to what	
	it should have been allowed to remain in the first place. Every	
	elected or appointed official that signs off on this should be	
	stripped and flogged then put on public display as an example of	
	what should happen to officials with no backbone. Make no mistake	
	you may think at this point this agreement is the best you could	
	hope for, but I disagree vehemently. What you should do is file a	
	suit against Big Sugar force them to clean up the old site at their	

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	expense, make stricter rules of absolutely no discharge into our waterways at their new location which they can pay the taxpayers for. If they don't like it tell them to move their business overseas and pollute somebody else's waterways. We can find other work for those they layoff helping clean up our waterways.	
CMZEN-179 (RR)	All though I am not fully informed on this project the watch groups that are protecting our everglades are. My main comment here is that from what I have read, seen, experienced in my 41 years that the army core of engineers have caused more problems than good in regards to the everglades. I am as well as other am not willing to give any more of my rights to the use of the everglades to accommodate blotches by the acoe which effects our rights, wildlife destruction, and any more impedance in regards to water levels.	Alt AR2 provides significant benefits within the project area; beneficially affecting more than 1.5 million acres in the Caloosahatchee and St. Lucie Estuaries, WCA 3, ENP, and Florida Bay. Alt 4R2 would decrease high volume freshwater discharges from Lake Okeechobee that are currently sent to the Northern Estuaries. Additional water from Lake Okeechobee would be sent southward strough canals of the EAA to the A-2 FEB. The A-2 FEB would provide storage capacity, attenuation of high flows, and limited pre-treatment prior to delivery of the redirected water to existing STAs, which would reduce phosy phorus concentrations in the water to meet required water quality standards. The treated water would be distributed across the morthwestern boundary of WCA As to flow through and help restore more natural quantity, timing and distribution of water to WCA 3A, WCA 3B, ENP, and Florida Bay. Several existing levees, canals, culverts, and pump stations would be constructed, modified, or remove the flow of water through the system and provide for other water related needs.
(MC)	In making my comments on the evaluation of water supplied to florida Bay and the likely impacts of that water, I failed to include and reference the included attachment. It is a document prepared by the principle scientists responsible for the florida Bay portion of the PIN for the Central Everglades Planning Project. It details the process used in evaluating project benefits to Florida Bay. The model used is certainly the accepted one used for estuarine analysis in Everglades projects and I would not hesitate to accept it's claim of benefit to the majority of the Shark River Slough. It does not however, include any analysis of existing circulation data to justify its claim of benefit to Florida Bay. It also fails to provide justification for the claim of transfer of freshwater, at the stated volumes, to the internal water bodies east of the Ingraham Highway. While it is inarguable that the proposed benefit exist at some level of fresh water input to the Shark River System, I believe it is far from clear	Please see response to CITIZEN-172; Comment 1 above. Also please reference Section G.2.3 and G.2.7 of Appendix G (Benefit Model) for further information on flows to Florida Bay.

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CONGRACKITED	ACENICACION (C.C.)	COBIC DECEDONICE
COMMENTER	ABENCT/ PUBLIC CUIVINGENT	CUMPS RESPONSE
	that they exist at the levels proposed by the existing plan.	
CITIZEN-181	As a 35 year resident of Martin County, I have seen many changes	The Recommended Plan addresses the need to restore ecosystem
(SY)	in the St Lucie River and Estuary.	function in the Northern Estuaries by reducing the number and
		severity of events where undesirable amounts of freshwater from
	We need to find a solution to the water releases. I believe CEPP will	Lake Okeechobee are discharged into the estuaries. The USACE
	make a difference by diverting 65 billion gallons south rather than	acknowledges that additional actions are needed to achieve the
	sending it the St Lucie and Caloosahatchee.	restoration envisioned in CERP and to help reduce turbidity,
		sedimentation, and moderate unnatural changes in salinity that are
	I urge the Corps to finalize CEPP and include it in the Water	extremely detrimental to estuarine communities.
	Resources Development Act.	
CITIZEN-182	Why are we allowing Doral to build west of the Turnpike? They just	urban development boundaries within Miami-Dade County are not
5	passed an Urban Development Boundary bill to allow the Doral	within the USACE's jursidiction.
	Mayor's, Luigi Boria, crony, Juan Carlos Tovar,	
	013/07/20/3511546/ethics-commis	The CEPP is encompassed in the CERP, which was approved by
	reviews-doral.html, to build west of the Florida Turnpike.	Congress as a framework for the restoration of the natural system
	http://www.miamiherald.com/2013/10/02/3666008/miami-dade-	under Section 601 of the WRDA of 2000. The purpose of the Restudy
	commissioners-expand.html.	was to re-examine the C&SF Project to determine the feasibility of
	Why are we not making more noise about this? What happened to	structural or operational modifications to the project essential to the
	CERP? This land is "environmentally sensitive and important to	restoration of the Everglades and south Florida ecosystem, while
	protecting the drinking-water supply". Florida aguifers are not	providing for other water-related needs such as urban and
	sustainable with further development. We need a real voice to	agricultural water supply and flood control in those areas served by
	protect our sensitive and endangered Florida Everalades	the project. The CEPP is composed of increments of project
		components that were identified in CFBP.
		Alt ADD increases the present of weeks and below and below as included
		Air 4KZ increases the amount of water available for municipal and
		industrial water uses in LECSA 3 (Miami-Dade County) by
		approximately 5 MGD.
CITIZEN-183	The CEPP intends to remove water from the IRL-S Project by pulling	Backflowing water from the C-44 Canal to Lake Okeechobee is
(SS)	water at times from the C-44 system and putting into Lake	consistent with today's operations of Lake Okeechobee (LORS 2008)
	Okeechobee (where it then becomes governed by different	and SFWMD water shortage operations (LOWSM) and does not
	operational rules and may not be available back into the C-44	affect permitted allocations. These backflows improve the ability to
	system where it may be needed during the dry season to promote	meet existing permitted demands by retaining more water in the
	proper salinities in the St. Lucie Estuary). The IRL-S Team did not	regional system that is available to agricultural users. The
	develop a Savings Clause for water supply instead said "we are	improvement to permitted users is an additional 21 kac-ft/yr on
	making more water available, therefore we are exempt". However,	average being back flowed from C-44 Canal to Lake Okeechobee with
	if CEPP removes too much water from the C-44 system, it may	CEPP in place. This represents about 4 % of the average annual
	inadvertently violate the IRL-S Savings Clause. Please address this	demand in LOSA (550+ kac-ft/yr).
	issue in the CEPP Final PIR,	

April 2014

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN-184	Page 1-65, second sentence – change "protection as well The language was changed as suggested.	The language was changed as suggested,
(PT)	conversion" to "protection as well as conversion"	
Comment - 1		
CITIZEN-184	Throughout the report, water-level gages should be referred to by	Throughout the report, water-level gages should be referred to by The monitoring gage naming conventions used in the CEPP PIR were
(PT)	their official name. In my opinion, the official name is the name	their official name. In my opinion, the official name is the name established to maintain consistency with the naming conventions
Comment - 2	used by the agency that operates the gage. In several cases, USACE used with CEPP hydrologic modeling output (Figure A.8-9 in	used with CEPP hydrologic modeling output (Figure A.8-9 in
	uses another name for the gage. For example, Site 3-2 is published	uses another name for the gage. For example, Site 3-2 is published Appendix A and Figure C.1-18 in Appendix C.1), since this
-	by the operating agency (USGS) as Site 62. If a reader goes to the information was referenced and presented to the technical	information was referenced and presented to the technical
	USGS website and looks up data for Site 3-2, they will not find it. I	USGS website and looks up data for Site 3-2, they will not find it. subteams, PDT, and other stakeholders throughout the CEPP plan
	propose a statement at the beginning of the report about gage formulation process and since the modeling output is posted on	formulation process and since the modeling output is posted on
	names. Perhaps an appendix needs to clarify the gages discussed in EvergladesPlan.org as part of the additional reference information	EvergladesPlan.org as part of the additional reference information
	the report and who operates them and their official name.	cited in the PIR. Figure 7-6 of the Draft Project Operating Manual
		(Annex C) has been revised to indicate alternative naming
		conventions for the 3A-3, 3A-4, 3A-28, and E-4 monitoring gages that
		are referenced in the DPOM. A comprehensive table which
		summarizes all key South Florida monitoring gages, primary
		operating agency, official name, and alternative naming conventions
		is not presently available for inclusion as supplemental information
		for the CEPP Final PIR.

Table C.3.3-4. Comment response matrix detailing comments received during the CEPP public meetings on the Draft PIR and EIS held September 16, 17, 18, 19 and 25, 2013

September 10,	September 10, 17, 10, 13 and 23, 2013	
COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
Central Everglad	Central Everglades Planning Project Public Meeting – Draft PIR/EIS September 16, 2013 Plantation, FL	3 Plantation, FL
CITIZEN-1	Just like the Corps of Engineers and the SFWMD, when we came to	Thank you for your comment. The USACE appreciates the ongoing
(AO);	participate in this project, we had an agenda, a set of goals, a	involvement of stakeholders from the recreational community.
Comment 1	mission statement. I think the primary mission statement we had	
	was that we wanted to prevent the backfilling of the Everglades	
	canals and the vast fishery that's out there, and this is for you Eric,	
	under the auspices of the CERP. Here we are 10 years later. And	
	with this presentation I would like to say that I'd like to put, you	
	know, maybe a close on this chapter at least on our first part of our	
	mission, which is the preventions of the backfilling of the canal, and	
	kind of pave the way for the second part of our mission, which is to	
	enhance the fishing opportunities that we have now and create	
	new fishing opportunities for future generations.	
CITIZEN-1	So with that said, I'd like to just single out a couple of people for	Thank you for your comment and recognition of CEPP PDT members.
(AO);	mention. Kim, I want to thank you for all the years of advice and	The USACE appreciates the ongoing involvement of stakeholders
Comment 2	support that you've given us. You told us from the very beginning	from the recreational community. The proposed recreation facilities
	to stick to our guns and we'd get, you know, our voice heard and	will increase access into the Greater Everglades and enhance user's
	our goals accomplished. And I want to thank you for that. And	opportunities and access within the marsh.
	Jerry Krenz of the SFWMD. He's been the face of the organization	
	as far as recreation is concerned. I remember 10 years ago when	
	recreation was kind of like a dirty word in the restoration process.	
	And he's kept at it for 10 years. And I think that the level of the	
	open policy of recreation out in the public lands is unprecedented,	
	and I thank you for that, Jerry. And I look forward to working on	
	the second part, which is enhancing the fishing opportunities we	
	have. So you're not done with us yet. Thank you.	
CITIZEN - 2	_	The Broward County Water Preserve Area (WPA) Project is a CERP
(SE)	emphasis on water quality with one point and that is we're here in	project that is located within the study area of CEPP and is assumed
	Broward County. I'm here tonight because this is my home county.	to be in the Future Without Project Condition. Once constructed,
	I live just a few minutes away from here. And just to give folks a	the Broward County WPA will reduce storm water deliveries to WCA
	sense of the water quality challenges and the extent to which we	3, thereby increasing the overall quality of water available for
	have to go to meet them. Right here in Broward County we have a	delivery to ENP. Increasing water flows to NESRS and introducing
	CERP project. It's called the Broward County WPA Project. And one	water flow into WCA 3B as a result of implementation of CEPP could
	piece of that project, a major component of that project that has to	occur once the Broward County WPA C-11 Impoundment is in place

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Appendix C.3

COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	be built is to prevent phosphorous from flowing directly into ENP.	to reduce 5-9 discharges to the L-67 A canal, which contributes to phosphorous loads into ENP through 5-333.
	So the largest source of phosphorous right now is the Everglades. Certainly the EAA and the SFWMD is bringing in an additional billion dollars worth of investment to solve that problem. But one of the next largest sources of phosphrous into ENP is Broward County. And so – and just to give you a sense. Broward County is one of the leaders when it comes to local government on water quality. So the water quality in Broward County is tremendously clean by comparison.	
	And so to give I think it was Rhonda or somebody who raised the question of how clean – do we really have high standards? In the central and –(inaudible) – Everglades we have very, very high standard for clean water. And so even with a county discharging into the Everglades as clean as Broward County, we still have to build quite a large CERP project to take care of the rest of it to get it down to that very low standard.	
	And the last thing I would say is this sense of urgency, I think all of us share it. We share it in government and we rely on Congress for both appropriations and authorization. Authorizations to come first, then appropriations. Thank you.	
CITIZEN — 3 (JK)	1	The project is cost-shared 50/50 with the South Florida Water Management District (SFWMD). The SFWMD is required to provide all lands necessary for the project and may also contribute cash or work-in-kind credits for planning, design and construction that can be credited towards their 50% of the costs.
CITIZEN-4 (DV); Comment - 1	My name is Doug Young, President of the South Florida Audubon society. The first comment I wanted to make is that the former name of the south Florida Audubon Society was Broward County Audubon, because we represent Broward County, We're one of 4A Audubon chapters in Florida. We've been around since 1956. And I just wanted to start by saying that the crganization was one of the founding members of the Everglades Coalition, which was approximately 28, 29 years ago. So we've been involved with the Everglades. Everglades castoration for that period of time pre-CERP	Thank you for your comment. The USACE appreciates the ongoing involvement of the South Florida Audubon Society in the restoration of the Everglades.

Appendix C.3

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
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CITIZEN-4 (DY); Comment – 2	Now that I said that, I just wanted to say that I noticed in the EIS, and I haven't had a chance to read this portion, that there's a section of sea level rise assessment, which is terrific and I know this is happening. I know the SFWMD and everybody is incorporating both saftwater intrusion and sea level rise into what they're doing. But I also realistically understand that as far as funding and appropriation goes, that the plans that you showed don't happen, you know, overnight. It's a lengthy process.	The effects of sea level rise were analyzed per EC 1165-2-212. This analysis looked at the effect of sea level rise on the project area as well as on the restoration benefits anticipated to result from the implementation of the Recommed Plan. The Final CEPP integrated PIR and EIS could be updated if necessary as further information on sea level rise projections were to become available.
	So the only positive comment I have is that having been involved with other projects that involved the Corps is that as this progresses, that the assessment that was made for the ELS, if we're looking at let's say five years down the road, the data that's available at the present time for both saltwater intrusion and sea level rise is going to change, which totally affects everything that you've spoken about. So you know, that's just a comment that I make because its – it's a work in progress. And, you know, climate change is a work in	
CITIZEN-4 (DY); Comment – 3	And leaves I wish everyone the best of luck as far as the appropriations. Because we know that even though it's so important to us and we have addressed the situation about the	Thank you for your comment. Staff will work as expeditiously as possible to complete the Chief of Engineer's Report for submittal to the Assistant Secretary of the Army for Civil Works and Office of
	Everglades, America's Everglades and CERP and CEPP to across the country to congressional delegations, Senators, congressional people who have been down here touring the Everglades that it's still a very tough sell, because there's a list a mile long for projects across the country. So hopefully some dollars will be allocated for 2014 in addition to what's there right not.	Management and Budget for administrative review. This will occur upon completion of the State and agency review of the Final CEPP Integrated PIR and EIS. Construction will be dependent upon Congressional authorization and funding.
CITIZEN-5 (DS); Comment - 1	Hi. Good Evening. Firstly I just wanted to congratulate folks. I was one of the lucky ones who attended every public hearing for the last two years on this project. And honestly the team that has been	Thank you for your comment.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	working on this has been steadfast, persistent. They were fairty unflappable in whatever, you know, curve balls were thrown. Really responded meaningfulf for I mean certainly the first time in my seven years in the Everglades restoration work do I feel like the most responsive planning was held. I think that was a great stakeholder model. Really, really excited that product came out of this. It's going to take a huge step to removing levees in the Everglades. It's a big leap. A place that we didn't think we would get. And this team was able to do it with constraints on the property that we already owned, with you know a timeline that seemed unthinkable.	
Comment - 2	We're so close that the house released an authorization bill, you know, last week for the public. It's going to markup. I'm going to be up in D.C. watching over their shoulders to make sure that we can edge out a little bit of flexibility to get this plan authorized. Without congressional authorization we can't have a conversation about funding. And we desperately see the effect of not having infrastructure on the ground – (inaudible) – northern estuaries. You guys have delivered the product and actually produced a model planning project, which Congress is now trying to guide the Corps into doing more frequently on all of their planning projects. So here it is. This is the test case. This is the model. We're at the last leg. I want to congratulate you on an incredible effort. I have one niticky thing. I am an advocate after all. Did we really have to one mitch blue Shanty levvee, Le7D. A little less loaded. Thank you.	Thank you for your comment. Please see response to CITIZEN-4 (DV), Comment-3 above regarding the project schedule.
Comment-1	Hi, my name is Stan Pannaman. I'm from the Broward County group of the Sierra Ciub. And among other things I'm on the Southeast Florida Marine and Water Quality Team as well as the Arugdages Restoration Team. Now! would like to commend the Army Corps of Engineers for a fantastic job they've done. But unfortunately the time schedule that you have and the reality of what's happening from the water that's being dumped from Lake Okeechobee to the Gulf of Mexico as well as the Atlantic Ocean, the water quality in the ocean year after year is degrading conditions for the manatees, for our fish nurseries, and for our quality in general of the reefs, coral reefs. They're falling apart.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Obedobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. Please see response to CITIZEN-4 (DY); Comment-3 above regarding the project schedule.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CTIZEN - 6 (SP) Comment-2	Now I know the Corps is limited in what it can do because of money. But unless this Lake Okeechobee Issue is taken into consideration, and the water treatment of this water that you want to bring south, the timing is terrible. Doug Young talked about global climate change as well as the idea of sea level rise. Well, all off this has to do with the amount of water and pressure that you have on the Everglades. If you don't get water down here soon, the saftwarer will just go through this limestone that we have and destroy all of the plans and all of the hard work that you gentlemen and ladies are doing. I don't know what else to say other than just keep up the hard work. But we – I guess we citizens have got to look at the situation realisticially and try to convince our congressman and our Senadors that the money be appropriated for the cleaning of this water has to be done almost immediately or else the rest of the plan that you have is going to go for not. Thank you.	The Recommended Plan is not expected to significantly affect the water quality of Lake Okeechobee. As stated in the PIR, the allocation of TMDL phosphorus loads will be addressed through revisions to the Lake Okeechobee Basin Management Action Plan. Specifically, the FDEP is in the process of developing a BMAP for Lake Okeechobee pursuant to Section 403.607. Florida Statutes. This BMAP will be an iterative effort to address water quality issues in Lake Okeechobee. Potential water quality issues associated with 5-308 loads will be addressed as part of the BMAP. The effects of sea level rise were analyzed per EC 1165-2-212. This analysis looked at the effect of sea level rise on the project area as well as on the restoration benefits anticipated to result from the implementation of the Recommended Plan. Staff are working as expeditiously as possible to complete the Chief of Engineer's Report Comment-3 above regarding the project schedule.
Central Everglad, CMZEN-1 (PQ); Comment 1	Central Everglades Planning Project Public Meeting – Draft PIR/EIS September 17, 2013 Ft. Myers, Ft. CTITZRN-1 (PQ); I represent Collier Audubon and the Audubon Chapter of the Western Everglades and almost 200,000 fishermen from the Snook Persent Everglades and almost 200,000 fishermen from the Snook Peudation who increasingly tell me that they, their families and their clients not only fish but they vote. So we have a real interest in what's happening to our coast estuaries. I think 've listened to Kim more in the last 18 months than I have my wife. We've been to countless, countless meetings. And it's a really interesting and I think very informative process. We thank you for the ability to participate. From the beginning, and I noticed today was, I think, the first time in your 47 times I've heard this presentation that you dight's start out with saying this is the first increment because it is the first increment, and it is that that we need to talk about.	Thank you for your comment.
CITIZEN-1 (PQ); Comment 2	How soon can we start that second increment to talk about how do we move the million acre-feet of water that are coming down from Lake Okeechobee into our estuaries? We understand and we are fully supportive of CEPP because it builds the infrastructure that	Thank you for your comment and support of CEPP. The primary focus of the CEPP PDT is to work as expeditiously as possible to complete the Chief of Engineer's Report. The implementing agencies are committed to engaging in a public process to integrate CEPP into

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	ultimately will allow us to move additional water. But we need to start the discussion of addressing long term what do we do, not with 200,000 acre-feet, not with the million acre-feet that's coming out of the Efs, but the additional million acre-feet of water which is providing the heavy nutrient loads to our coastal waters.	the CERP Master Implementation Sequencing Plan which defines the order in which CERP projects would be planned, designed, and constructed.
CITIZEN-1 (PQJ); Comment 3	So I think that's the process I'm looking forward to, is the one we've been talking about from the very beginning. We understand where we're going, we understand the necessity to build the precursor, we understand the tremendous amounts money, we understand the necessary sequencing of these projects to make them work; but we need to start talking about the grand plan. How do we start envisioning a real solution, a real long-term solution to the million acre-leet that's coming down the Caloosahatchee year after year after year.	Thank you for your comment. Please reference Section 6.9.1 for further, information. CEPP has formulated a solution for an increment of overall restoration of the south Florida ecosystem. Incidentally, there are problems and opportunities remaining. CEPP is not meeting all targets of CERP that are based on the understanding of the pre-drainage Everglades, however CEPP does provide for significant and substantial restoration of the Everglades ecosystems and achieves approximately 2/3 of the additional water recommended plan provides a significant increase in freshwater needed for the restoration of the central Everglades, additional actions are needed to achieve the restoration envisioned in CERP. The actions may include further reduce harmful discharges of freshwater from Lake Okeechobee to the St. Lucie and calososhatchee Estuaries and improve estuary habitat for oysters and SAV, further reduce the intensity, frequency, duration, and spatial extent of hypersaline events in Florida Bay.
CITIZEN - 2 (JH) Comment 1	Greetings, thank you, everybody. I appreciate you guys having the event tonight, and I certainly appreciate you traveling to the east coast with the message over them as well. I personally just came from the east coast traveling the St. Lucie River and Indian River Lagoon to where I had a bird's-eye view basically of their situation compared to our situation; it's pretty bleak over there. When I left 21 cases of dengue fever have been reported so this is a very serious concern when it comes to pollution that is actually taking effects on humans now it guess what I'm trying to get at is more of a statement. The statement being a grassroots movement has basically begun with the momentum of the Lake O discharges. So when it comes to the east coast and west coast combining our forces, we only empower ourselves with real fact education rather than sitting in rooms like this and hearing, you know, back and forth of examples of we don't have enough funding, or we're looking at	Thank you for your comment. The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turblidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	actually having this figured out in the year hypothetical 3012 or so, whatever number it was that you gave.	
CITIZEN - 2	The point being is these are all long-term fixes. We applaud your	Alt 4R2 redirects an average of approximately 210,000 acre-feet per year of clean freshwater into the central nortion of the Everglades
Comment 2	on the coast are going to be effected by the runoffs for years to	that would otherwise be undesirably discharged to the Northern
	come. When you do travel to the east I would be quick as a	Estuaries. The concept of a "flowway" or broad shallow marsh area
	representative of this movement to let you know you will be met	that is used to flow water freely from Lake Okeechobee to one or
	with strong opposition for plan six. When you go over there they	more of the WCAs was screened from further consideration as part of the CFRD. Further information on the evaluation of this concent.
	will very mach be open alms, they be not labble-lousers, so to speak as we all aren't but we all want solutions of course and	can be found in the C&SF Comprehensive Review Study (USACE
	that's what we're all here for.	1999).
CITIZEN - 2	And I applaud your efforts, but I also have to make point and public	Thank you for your comment.
(H)	record for all to know that this is where it begins on a grassroots	
Comment 3	level. I see children, I see older Tolks, I see everyone in between	
	getting involved on this issue, the west i must admit is a little	
	slower getting to it than the east, nowever, we are gaining	
	momentum. I encourage all Tolks, all Tolks, especially children and	
	what's mains on little year, aducational for them to carry it on to the	
	next generation. This is a 20-year plan when it comes to we're not	
	going to really have a fix, so we have to have them as our pioneers	
	and our stewards of the protection of our ecosystem.	
	So basically with that, in closing I'd like to say we are now an official	
	50,000 member Floridian watch group upon yourselves, and we will	
CHIZEN	noid your reet to the rife.	Alt AD3 addiscreas the wood to rectors according in the
ı	counties that are right in the basin of Okeechobee including	Northern Estuaries by reducing the number and severity of events
Comment 1	Okeechobee, Glades, Highlands, Desoto, Hardee, the northern part	where undesirable amounts of freshwater from Lake Okeechobee
	of Lee County, all the way up to Polk and Hillsborough, parts of	are discharged into the estuaries. The CEPP is composed of
	Hillsborough. And the point I would like to make is that having	increments of project components that were identified in CERP. The
	been an airline pilot for 25 years and looking at Florida from great	term "increment" is used to underscore that the study formulated
	height, often at night and seeing the lights encroach upon this	portions (scales) of individual CERP components. The USACE
	natural treasure we have of the Everglades system, you could see	acknowledges that additional actions are needed to achieve the
	the squeeze going on, and looking at the country as a whole, we're	restoration envisioned in CERP, including construction of C-43 and
	looking at situation where certain, let's say, commercial interests	inc-s, to neip reduce turbiaity, sedimentation, and moderate

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	have held sway over environmentalist interests. And now we're in	unnatural changes in salinity that are extremely detrimental to
	a situation where we're talking about a plan which looks to me,	estuarine communities.
	more or less, going hand in hand to Congress for the funds to do, as Ray pointed out, just a tenth of the job, and I think we have to think	
	larger.	
CITIZEN - 3	If the federal budget is three trillion dollars roughly and a third of	Thank you for your comment. USACE is committed to making the
(wb)	that goes to the Department of Defense, of which the Corps of	most prudent use of the annual appropriations provided.
Comment	the Description of Defend his not the Corps of Engineers' fault, but	
	the Department of Defense has including infiliation its mose at	
	registation that was passed in 1992 that all departments of the	
	Pofestal Bovernment will be addited every year. The Department of	
	Delense nas nevel been audited.	
	So how can we determine whether, according to the information	
	that was released by Edward Snowden, which is the closest we've	
	come to an aidit of the defense denartment to show that inst the	
	black budget of the Donartmost of Defence is 57 billion dellare	
	Miles and conference of the Department of Defende is 37 billion dollars.	
	Willy We call tilling the 20 of 30 billion doilats we need to do this	
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CILIZEN - 3	so I would just urge you that when you go to vote think in terms of	I hank you tor your comment.
(MB)	the big picture and which party and which representatives are going	
Comment 3	to go to bat for the environment or are those going to keep the	
	status quo or the gridlock which in fact locks in place the current	
	unbalance between the average citizen and those of the corporate	
	bureaucracy which seems to be dominating our environment	
	situation here today.	
CITIZEN-4 (GB);	I'd like to touch on something a little different than most	Sea level rise analysis is included in the report in Annex I. There is
	people are thinking about right now, but I don't know if	an external peer review of this Everglades program. The National
	everyone here believes in global warming and subsequent rise	Academy of Science does a review of progress towards restoring
	in sea levels, but some of the predictions are that by the time	the Everglades every two years and one of the issues they have
	this long-range plan is implemented the sea levels may be six to	taken up is climate change and sea level rise. The Academy
	eight inches higher than they are now, and that would put	opinion and the scientific consensus is, that Everglades
	them dangerously close to the impoundment levels of the fresh	restoration, the comprehensive plan, and getting more water into
	water which holds back the water in the Everglades and the	the Everglades is a very good adaptation strategy for future
	surrounding area. And I think that Everglades National Park	climate change and sea level rise in South Florida.
	may have to be renamed Everglades Marine Sanctuary. I don't	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	know what kind of plans you have of raising the impoundment if that becomes necessary. I'm sure there's something in effect unless nobody believes.	
Comment - 1	I represent the National Sierra Club. I run the Florida Panther campaign out of Fort Myers, and I'm also speaking on behalf of my colleague Jonathan Ulman who runs the Everglades camp. The Sierra Club supports CEPP. We believe that it's critical to restoring the natural flow to the Everglades. We understand it's not a panacea, but we hope it will help restore millions of acres of wetland.	Thank you for your comment.
COmment - 2	One change that we would like to see is that the Corps needs to revert the original intent of the water treating feature between the L-57 and the eastern end of the 2.6-mile Tamiani Trail Bridge. It was intended as a temporary weir until durther decompartmentalization could be completed. The original COE intent was for it to be temporary, but now this has become a tall dam that will be tremendously expensive to maintain and very hard to remove. The Sierra Club would like to see the original intent of the structure restored. We do not want any more walls in the Everglades.	The CEPP plan does not include a water treatment feature between the L67 and the 2.6 mile Tamiani Tail bridge. The CEPP plan does include a levee, the L-67D levee, to provide a southern flowway for water leaving WCA-3A and entering Everglades National Park. The alignment, design and dimensions of the levee will be further investigated as the project progresses in to Pre-construction Engineering and Design (PED). The function and integrity of the C&SF flood protection system provided by the L-67 A and L-67 C levee system must be maintained following CEPP implementation, and CEPP degradation of portions of the L-67 C and L-29 levees must be offset with additional infrastructure and operational constraints that maintain the preproject level of flood protection and account for any potential increased design risk. The details of additional infrastructure, and how it would interface with operations and existing infrastructure, and how it would interface with operations and existing infrastructure, will be determined in the future as adaptive management, Pre-Construction Engineering and Design (PED) and as other information becomes available for this area. Consideration of a new L-67 D levee (currently included as a component of the CEPP recommended plan), including its footprint (width/height), costs, and permanency, will be equatiously considered and subject to to PDT coordination and applicable policies and permitting
CITIZEN-6 (JM); Comment - 1	I think I agree with everybody here. I'm a member of the Snook group, and the Audubon, et cetera, and so I don't think I need to say anything more about that. But I'm impressed, and the only thing I can say is Godspeed. You know, we've got this far and I think	The normal authorization process would be a Water Resource Development Act. Congress is taking one up right now. There's a bill in both houses; they're quite different, and so you don't know when

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	there's a lot of things that need to be done, but we can't lose our	or if they'll be progress on a Water Resource Development Act, but
	focus on getting this through and getting this completed. And my	that is the necessary thing for - as far as the Corps of Engineers is
	hat is off to all of you, it's just keep your eye on this ball and let's get	concerned, to start budgeting for any of these projects, that we
	it done.	would have to have it authorized first.
	And the only question I would have was in terms of funding, does	
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CITIZEN-6 (JM);	When do you honestly think the final go-ahead would be that you	I hank you for your comment. Please see response to CIIIZEN-4 (DY);
Comment - 2	could then go for a water bill?	Comment-3 above regarding the project schedule.
CITIZEN-7	I'm a 40-year Lee County resident, 40-year business owner	Thank you for your comment.
(MA);	here, and I would like to commend the impressive staff and the	
Comment - 1	report that we witnessed tonight. As you can see I'm not a	
	young man. I hope to have grandchildren and I would hope	
	that they would be able to benefit from some of these studies	
	and implementations that are going on now.	
CITIZEN-7	As a business owner I am being impacted as we speak by what's	The Recommended Plan addresses the need to restore ecosystem
(MA);	happening today. And although this is very impressive tonight,	function in the Northern Estuaries by reducing the number and
Comment - 2	we have a long ways to go and it seems to me that all these	severity of events where undesirable amounts of freshwater from
	mandates and these schedules are not hitting the urgent need	Lake Okeechobee are discharged into the estuaries. The USACE
	that we all are experiencing. It's a 10 percent solution as Mr.	acknowledges that additional actions are needed to achieve the
	Judah had said, and it falls unfortunately falls short of taking	restoration envisioned in CERP and to help reduce turbidity,
	care of the need.	sedimentation, and moderate unnatural changes in salinity that are
		extremely detrimental to estuarine communities.
Central Everglad	Central Everglades Planning Project Public Meeting - Draft PIR/EIS September 18, 2013 West Palm Beach, FL	I West Palm Beach, FL
CITIZEN-1 (EF);	My overall feeling of course, you know that we're terribly	Thank you for your comment. The Recommended Plan addresses
	emotionally distressed. So you know that's where we come from.	the need to restore ecosystem function in the Northern Estuaries by
	But I have been at the various meetings, of course, and my	reducing the number and severity of events where undesirable
	observation is this, that the ladies and gentlemen of the Corps and	amounts of freshwater from Lake Okeechobee are discharged into
	of Water Management and of the supportive agencies have done a	the estuaries. The USACE acknowledges that additional actions are
	remarkable job in pulling together this first increment within this	needed to achieve the restoration envisioned in CERP and to help
	very narrow timeframe. And I personally didn't think it had a	reduce turbidity, sedimentation, and moderate unnatural changes in
	chance in the world, just based on history. I just didn't see how in	salinity that are extremely detrimental to estuarine communities.
	the world we were going to be able to do it. And you've done it, and	
	I just applaud that effort. Now all of us, Martin, Lee, all of the	The significant amount of water resulting from CEPP will beneficially
	different counties, now we need to pick up the ball and pursue the	affect more than 1.5 million acres in the St. Lucie and
	lobbying and the contacts with our various Congressional	Caloosahatchee Estuaries, Water Conservation Area (WCA) 3A, WCA
	delegations. But you guys have done well. And you still have a ways	3B, Everglades National Park (ENP), and Florida Bay. Staff will work

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	to go, but you've done well. And I wanted you to know that in spite	as expeditiously as possible to complete the Chief of Engineer's
	of our distress, and candidly, that's just emotional and financial, but	Report for submittal to the Assistant Secretary of the Army for Civil
	we do appreciate and specifically appreciate that as you are able	Works and Office of Management and Budget (OMB) for
	over these last couple of weeks, that you have diminished the flow.	administrative review. This will occur upon completion of the State
	All of those efforts are significant to us, and they come to our	and agency review of the Final Central Everglades Planning Project
	hearts and we appreciate your efforts very much.	(CEPP) Final Integrated Project Implementation Report (PIR) and
		Environmental Impact Statement (EIS). Construction will be
		dependent upon Congressional authorization and funding.
CITIZEN - 2	I think my comments are representative of how the public feels.	Thank you for your comment.
(CS)	This is basically very technical conversation. These are technical	
	comments. And we seem to be dancing around the fact that the	Lake O Water Quality Monitoring: The SFWMD has a long-standing
	water is polluted now. Why aren't we monitoring all the substanc	water quality monitoring network within Lake Okeechobee to
	es, whatever is going into Lake Okeechobee? Why hasn't this been	monitor an extensive list of parameters.
	monitored for years? We're kind of picking up the ball now that the	
	lake, which is our source for survival, is in jeopardy. Why at this	Lake sediments: The FDEP has conducted a limited lake sediment
	moment aren't the wastes or anything that's going into Lake Okee-	removal project in recent years. Extensive removal of lake sediments
	chobee being monitored? I don't even know why we're having this	has been studied; however, costs are prohibitive.
	conversation when we're talking about polluted water. Is there any	
	way to get rid of the toxic silt at the bottom of Lake Okeechobee? I	CEPP Schedule: The 2029 date is based on the implementation
	have a lot of questions. But it seems to me also this is a crisis. We	schedule of the Restoration Strategies Plan. To minimize the risk of
	don't need oil; we don't even need electricity. But we cannot sur-	downstream water quality impacts, the CEPP implementation plan
	vive without water. So why have we been talking about 2029? The	calls for the Restoration Strategies features to be in place and
	way things are going, who knows what the world, the shape of the	operated for several years.
	world's going to be. This is probably the single most important thing	
	we can talk about, trying to preserve the water. So I think that this	
	should be pushed into fast forward as the main project for this en	
	tire south Florida.	
CITIZEN-3 (MD)	Michelle Diffenderfer, from the law firm of Lewis, Longman &	Section 5.3.2 of the PIR has been updated to include a description of
Comment - 1	Walker, representing the Seminole Tribe of Florida here this even	the western basins and discussion of the Tribe's request for CEPP to
	ing. And as you know, the Tribe is a long-standing supporter of Ev	consider opportunities to re-direct water from Lake Okeechobee to
	erglades restoration, participating in the restudy, the authorization	the western basins for the purposes of restoring natural areas within
	of CERP and even funding a cost share project with the Corps of	the Seminole Big Cypress Reservation and the adjacent Big Cypress
	Engineers to bring water to the Big Cypress Seminole Indian Reser-	Natural Preserve
	vation. Of course, it's still under construction, but we're finding that	
	it's not achieving all of its goals. Many of the goals are being	The Corps remains fully committed to ecosystem restoration and
	achieved, but primarily the remaining goal of wetland restoration	over the past several years has found success in doing so through
	on the reservation, also south of the reservation in the Big Cypress	continued engagement with key partners and stakeholders. The

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	National Preserve and additional lands where the Tribe retains cus	Seminole Tribe of Florida's interest in seeing the Central Everglades
	tomary usage rights. Both Tribes do. So since the inception of the	Planning Project (CEPP) used as a planning vehicle to deliver the
	Central Everglades Planning Project, the Tribe has sat at the table	long-term hydrologic benefits is understandable. However, within
	and given comments, as you are aware, of our concern that with	the broader Comprehensive Everglades Restoration Plan (CERP), the
	such a wonderful planning effort and opportunity looking at the	current CEPP study cannot specifically address several restoration
	Central Everglades, that this project does not actually include those	projects, to include the delivery of water to the Big Cypress
	western Everglades areas, including the Big Cypress Seminole Indian	Reservation. As only the first of several increments of CERP needed
	Reservation, the Preserve and the additional lands, and the oppor-	to support restoration, the CEPP study sought to identify a suite of
	tunity to take even more water from Lake Okeechobee benefitting	projects that most effectively capitalized on existing data,
	these estuaries, bringing it south and helping restore the wetlands	knowledge, evaluation tools, previously constructed restoration
	on the reservation and south of it. And we have continued to make	features, and lands currently available. Implementing an
	that comment through this process. The concern is that with the	incremental approach along with the continued gathering of critical
	Tribe's reservation is not included within your various lines. It	scientific data and knowledge will certainly facilitate future studies
	makes it very difficult for the Tribe to assess whether or not there	and subsequent progress in restoration.
	are negative impacts. But more importantly, it, of course, makes it	
	nearly impossible to provide positive impacts.	
CITIZEN-3	And we know that you've worked hard to ascertain that the water	Section 5.3.2 of the PIR has been updated to include a description of
(MD);	supply entitlement is met, that we continue to get deliveries from	the western basins and discussion of the Tribe's request for CEPP to
Comment 2	Lake Okeechobee for water supply needs on the reservation, and	consider opportunities to re-direct water from Lake Okeechobee to
	also, of course, the potential rehydration of Water Conservation	the western basins for the purposes of restoring natural areas within
	Area 3A where the Tribe has rights as well. But we continue to want	the Seminole Big Cypress Reservation and the adjacent Big Cypress
	to focus on the western Everglades area, And we appreciate that	Natural Preserve,
	the task force has been meeting with the Tribe, both Tribes, to look	
	at this issue and talk more about it and identify the lack of data	The Corps remains fully committed to ecosystem restoration and
	monitoring and modeling and maybe provide some opportunities	over the past several years has found success in doing so through
	for some of that study. But unfortunately, it's not in a timeframe for	continued engagement with key partners and stakeholders. The
	us to completely sign off on CEPP at this point, even though we	Seminole Tribe of Florida's interest in seeing the Central Everglades
	recognize all the benefits of CEPP. It's just that they're not really	Planning Project (CEPP) used as a planning vehicle to deliver the
	benefits for the Seminole Tribes areas. So that's really the concern	long-term hydrologic benefits is understandable. However, within
	we're bringing you today. And I think that there's an opportunity,	the broader Comprehensive Everglades Restoration Plan (CERP), the
	with the task force meetings, for us to get there. It just puts us in a	current CEPP study cannot specifically address several restoration
	position where we've supported Everglades restoration for so long,	projects, to include the delivery of water to the Big Cypress
	and I definitely would agree that you guys have done a great job.	Reservation. As only the first of several increments of CERP needed
	We would just be even more happy if it actually included our areas	to support restoration, the CEPP study sought to identify a suite of
	of concern to the tribal members.	projects that most effectively capitalized on existing data,
		e, evaluation tools, previously constructed restoral
		reatures, and lands currently available. Implementing an

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		incremental approach along with the continued gathering of critical scientific data and knowledge will certainly facilitate future studies
		and subsequent progress in restoration.
Comment - 1	represent 15,000 voters from the east and west coasts, a loosely formed collective of citters who you've probably seen in the newspaper and on TV demonstrating and peacefully arrying signs, and little kids with tee shirts saying they're more valuable than water and sugar and that. And I'm here to say today that we support what you're doing. We appreciate what you're doing. Of course, we would rather not get your water, but we're doing. Of rouse, we would rather not get your water, but we're doing. Of rouse, we would rather not get your water, but we're doing that ifght now. We understand that there's issues that have to be dealt with. The concept of a good compromise is everybody walks away from the table a little upset because no one got everything they wanted. We accept that. We have a little bit of a problem in St. Lucie County, understanding how we have a ten mile creek reservoir with a pumping station sitting there ready to be used, but we carlt get a sign-off from some of the different federal organizations (inaudible) the Army Corps. We understand that the east coast is suing because we're getting too much water. There's all these issues, and organizations are fighting amongst themselves. I came yesterday from Marco Rubio's office, meeting with his staff. Wext Tuesday I'll be in Washington, D.C. or in Tallahassee talking to the State Legislature. The following week we'll be in Washington, D.C. speaking before Congress. We're hoping that there's some way that everybody can come together and put these issues aside. It would be inveryed or would be forward on this.	Thank you for your comment.
CITIZEN-4 (DV);	There's a whole slew of problems. How can northern Florida be suine Georgia heraitse they have a drought and we're down here	Thank you for your comment. The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by
	suite or onge around and are an one of the community of t	rectuting the number and severity of events where includes by rectuting the number and severity of events where includes amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CEPs and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN-4 (DV);	There must be a way in this state, if the water is down here, it can	The Comprehensive Everglades Restoration Plan (CERP) outlines the
Comment - 3	also go up north. We're sending it every other direction, east and	framework for modifications to the Central and Southern Florida
	west. I understand that there's a couple of pumping stations	water management system to capture water currently being
	needed to make that happen, but the people on the east and west	discharged to tide and re-direct that water through storage,
	are remaining calm. They understand that you all are doing the best	treatment and conveyance to restore the ecosystem while providing
	you can. We appreciate that. We just hope you can do something.	for other water related needs. The CEPP plan is a first step in
		infrastructure improvements necessary to re-direct some of the water currently soins to the estuaries when it is not needed.
CITIZEN - 5	I'm the Florida program coordinator for Clean Water Action, and I'm	Thank you for your comment.
(00)	also happy to serve as the national co-chair of the Everglades	
Comment-1	Coalition, made up of 57 local, state and national conservation	
	groups committed to - for restoration of the Everglades. I'm thrilled to be here	
CITIZEN - 5	I'm thrilled to be at this juncture, to have a draft PIR to review.	Thank vou for your comment.
	it's incredible. So first of all, thank you for the opportunity alone	
Comment-2	this entire process and for being here this evening, I certainly	
	appreciate it. I've been to numerous really successful public work	
	shops, as anybody who has heard me speak along the way has	
	probably noted, but I just have to say again successful in terms of	
	well facilitated, people were engaged meaningfully along the way,	
	which really led to the true stakeholder buy-in that we're seeing.	
	So first and foremost, I just have to say, on behalf of the Everglades	
	Coalition, thank you, and we continue to look forward to further	
	evidence of this project and more restoration in the future. So	
	thank you. Clean Water Action is working with our allies in the	
	environmental community to really fully assess and digest and un	
	derstand this very long process, and we look forward to submitting	
	some of our detailed comments in group form, because we that	
	would be convenient, and doing so as soon as possible.	
CILIZEN - 5	We do have some specific concerns and suggestions regarding the	WKDA ZUUU requires (savings clause) CERP to not reduce the level of contine for flood protection as of 2000 and in accordance with
Comment-3	the environmental has advocated for a restraining wall or a less	annicable law. The function and integrity of the C&SE flood
,	permanent berm structure. And so we have some very specific	protection system provided by the 1-57 A and 1-57 C levee system
	policy and scientific recommendations involved with that levee that	must be maintained following CEPP implementation, and CEPP
	we will submit to you in writing.	degradation of portions of the L-67 C and L-29 levees must be offset
		with additional infrastructure and operational constraints that
		maintain the pre-project level of flood protection and account for

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		any potential increased design risk. The details of additional infrastructure, and how it would interface with operations and existing infrastructure, will be determined in the future as adaptive management. Pre-Construction Engineering and Design (PED), and as other information becomes available for this area. Consideration of a new L-67 D levee (currently included as a component of the CEPP recommended plan), including its footprint (width/height), costs, and permanency, will be cautiously considered and subject to PDI coordination and applicable policies and permitting.
nt-4	One thing I did want to bring up tonight is towards the beginning of the document it says that the purpose of the Central Everglades Planning Project is to assess federal and non-federal interests in implementing components of CERP. And i just thought that was a little bit furmy, it was something I wanted to question and figg. I can tell you, being at all these workshops, yes, there is interest in implementing components of CERP. And indeed, I would say from my perspective, and I'm sure from many of my colleagues and fellow stakeholders and Floridans, the purpose here is to make a significant stride in restoring our Everglades. So I just wanted to bring up, you know, that issue of purpose and see if that would be clarified along the way.	A "purpose and need" statement has been included in Section 1 (Introduction) of the Final PIR/EIS. It is in part a restatement of the problems and opportunities. The referenced text on page E5-1 of the Draft PIR/EIS under the paragraph heading "Purpose, Need, and Scope of This Study" has been edited consistent with revisions made to Section 1.
CCC) Comment-5	Again, I look forward to submitting some specific comments, sooner than later, so that the Corps can start analyzing what we have on the table. But oversall, by and large, very supportive of CEPP, very appreciative of the project and very excited to continue moving forward together. So thank you so much.	Thank you for your comment.
CITIZEN – 6 (ES) Comment-1	I have a lot of concerns, so I might as well just read it out. First of all, this plan can't be dependent on a politician's whims or can apign contributions. What happens if four years down the line we get somebody who is — we might have somebody who is all for it, and then four years later, all against it. It can't be dependent on: Oh, here's a campaign contribution. Kill this plan. It's gotta — for example, buy back the land, Big Sugar. Maybe that's a good idea. Is etto late to do that?	Thank you for your comment. USACE is committed to making the most prudent use of the annual appropriations provided.
CITIZEN – 6 (ES) Comment-2	Secondly, the regulatory agencies' budgets have been severely cut at a time of crisis. This is almost a crime. The EPA, the DEP, South Florida Water Management District. Severely cutting the budget is	Thank you for your comment. USACE regulatory divisions and the Non-Federal sponsor are committed to making the most prudent use of the annual appropriations provided.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	the same as crippling your ability to do the job. We have to make water conservation and preservation a priority. We're paying a	
	huge price by putting the needs of big business first.	
9 - NEZILIO	And we have to include the areas north of Lake Okeechobee. 200	The FDEP is implementing Basin Management Action Plans (BMAPs)
(ES)	miles north must be included in any plans that clean the waters of	within the Kissimmee River Basin to address water quality issues.
Comment-3	Lake Okeechobee.	
CITIZEN - 6		All features of the State's Restoration Strategies must be completed
(ES)	Everglades. Maybe you have to fast track this. Why have we waited	and meet State water quality standards prior to initiating
Comment-4	so long to start implementing this plan? Why have the biggest	construction of most CEPP project features. Completion of the
	polluters become so rich? Why don't we charge them for damage	State's Restoration Strategies is anticipated to occur in the year 202.
	done to the water or environment, for agricultural runoff, for	Earlier implementation could occur if water entering WCA-3A is
	emissions, et cetera? \$1.8 billion at least to try to salvage what	meeting State WQ standards and all parties agree to utilize
	used to be free.	moderating provisions of the DEP permit to implement prior to completion of the State's Restoration Strategies projects.
CITIZEN - 6	The health of Lake Okeechobee will determine the health of the	Thank you for your comment.
(ES)	Everglades and is the source of drinking water for south Florida.	
Comment-5	Also, our priorities here, billions on incineration, billions for biotech	
	industry, billions for power plants and natural gas lines, and the	
	water is our most important we need that more than anything.	
CITIZEN - 6	Also, what has been the impact to the Atlantic Ocean and Gulf of	The CS&F system was designed and constructed in the mid 20th
(ES)	Mexico of sending all Lake Okeechobee water via canal? Also,	century to accommodate the in-flux of several million people to the
Comment-6	adverse effects of west county energy center, agricultural runoff,	south east coast of Florida. The USACE and SFWMD are working to
	can that be more strictly regulated? Sewage waste, mining?	modify this system to better protect the water supply and natural
		ecosystem. The Recommended Plan addresses the need to restore
		ecosystem function in the Northern Estuaries by reducing the
		number and severity of events where undesirable amounts of
		freshwater from Lake Okeechobee are discharged into the estuaries.
		The USACE acknowledges that additional actions are needed to
		achieve the restoration envisioned in CERP and to help reduce
		turbidity, sedimentation, and moderate unnatural changes in salinity
		that are extremely detrimental to estuarine communities.
CITIZEN - 6		The CS&F system was designed and constructed in the mid 20th
(ES)	allowed the Everglades to dry up? What about the effects of global	century to accommodate the in-flux of several million people to the
Comment-7	warming? What are our current water quality levels in Lake	south east coast of Florida. The USACE and SFWIMD are working to
	Okeechobee? What are our goals and why did we wait so long to	modify this system to better protect the water supply and natural
	address this issue?	ecosystem.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN - 7	I'm here on behalf of the Sierra Club. I'm the conservation chair	The function and integrity of the C&SF flood protection system
(DM)	from the Loxahatchee Sierra Club. I'm also elected to the Paim	provided by the L-67 A and L-67 C levee system must be maintained
Comment-1	Beach County Soil and Water Conservation District. I am not here	following CEPP implementation, and CEPP degradation of portions of
	on behalf the Soil and Water Conservation District. The Corps needs	the L-67 C and L-29 levees must be offset with additional
	to not implement a permanent future berm between the L-67 and	infrastructure and operational constraints that maintain the pre-
	eastern end of the 2.6 mile Tamiami Trail bridge, also known as the	project level of flood protection and account for any potential
	Blue Shanty berm. The original intent was always a temporary	increased design risk. The details of additional infrastructure, and
	structure, not permanent. The Sierra Club would like to see the	how it would interface with operations and existing infrastructure,
	original intent that this weir was temporary return to the process.	will be determined in the future as adaptive management, Pre-
	We support the concept of decomp, and we're concerned that this	Construction Engineering and Design (PED), and as other information
	berm is going the opposite direction because it's creating a new	becomes available for this area. Consideration of a new L-67 D levee
	structure. We believe that once the flow is established through the	(currently included as a component of the CEPP recommended plan),
	slough and this has been established and the area has been trained	including its footprint (width/height), costs, and permanency, will be
	properly, that this berm should be able to be removed, also saving	cautiously considered and subject to applicable policies and
	you money by building a temporary structure, since a permanent	permitting.
	structure would be much more extensive. We support water being	
	cleaned and sent south to the Park.	
CITIZEN - 7	I would like to also say that I agree with some of the comments	The SFWMD and FDEP are working directly with land owners within
(DM)	about water quality that people have brought up. And I think that	the Kissimmee, Caloosahatchee, St. Lucie, and EAA basins to address
Comment-2	one of the weaknesses of this planning process, which I participated	water quality concerns at the source through the implementation of
	in, and I think as Cara Capp said, an excellent process, very open,	best management practices (BMPs). This work is important to the
	and we appreciate the opportunity to participate, but I am	CERP and CEPP projects.
	concerned that there is not enough emphasis on the source of	
	pollution in this plan, that we're very focussed on trying to clean up	
	poliution, but we're not really focused on where the pollution is	
	coming from.	
CITIZEN - 7	We're talking about phosphorus, however there are many other	Thank you for your comment.
(DM)	pollutants that come from these areas that we are not dealing with	
Comment-3	right now, including mercury, other pollutants which are also can	State and Federal agencies are working to implement this project
	have long-term impacts. There are a number of chemicals coming	with the goal of compliance with all applicable water quality
	off the agricultural fields, as well as nitrogen and phosphorus,	standards.
	which can be very damaging.	
CITIZEN - 7	We think that this is a good first step. I think that the timing of this	Thank you for your comment.
(DM)	is going to be a little slow, because I think there's going to be public,	
Comment-4	really public pressure to do this a little faster.	
CITIZEN - 7	One place we see right now is a very strong accumulation of water in the coupleast quarter of the WCA where water is accumulating	Thank you for your comment. The USACE and the SFWMD will undertake interesting of the CEDD recommended plan and the other
(DIMI)		חוותבו נפעב ווונבפו פרוסון סו מוב כבדר ובכסווווובוותבת מומו מוות נווב סמובו

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
Comment-5	And the question is should we not possibly be putting some of the	CERP projects awaiting authorization into the CERP programs' IDS,
	features in that we can begin to move that water south that is	which contains the MISP, through a robust public process.
	accumulating and causing a great deal of flooding? I think that that	
	is very important. Some of the other areas up north are important, I	
	think that the FEBs at the least should be built as soon as possible	
	so we begin cleaning the water.	
CITIZEN - 7	I'm not particularly in agreement with Mr. Barnett's comment that	Thank you for your comment and support of CEPP. Staff will work as
(DM)	this issue is not pollution and simply a matter of how you describe	expeditiously as possible to complete the Chief of Engineer's Report
Comment-6	the pollution. So I think that there has been evidence that water	for submittal to the Assistant Secretary of the Army for Civil Works
	flowing into the Everglades with certain phosphorus numbers has	and Office of Management and Budget for administrative review.
	created cattails and has created problems.	This will occur upon completion of the State and agency review of
		the Final CEPP Integrated PIR and EIS. Construction will be
	And so I'm not completely in agreement with that. But I do think	dependent upon Congressional authorization and funding.
	while the rainwater is extremely pure and that water can begin	
	moving under the bridge as soon as possible. So we hope that you	
	will expedite that process.	
CITIZEN - 7	Also, I would like to say that I think we need to continue to look if	Thank you for your comment. Please reference Section 6.9.1 for
(DM)	we can get more than 200,000, 210,000 acre-feet, because I think	further information. CEPP has formulated a solution for an
Comment-7	the estuaries are, you know, being hammered. And hopefully, if we	increment of overall restoration of the south Florida ecosystem.
	begin to tweak this process, we can possibly increase that number,	Incidentally, there are problems and opportunities remaining. CEPP
	because I don't think we can wait past 2029 to move it, start	is not meeting all targets of CERP that are based on the
	moving water south.	understanding of the pre-drainage Everglades, however CEPP does
	0	provide for significant and substantial restoration of the Everelades
		acceptance and achieves annoximately 2/3 of the additional water
		flow into the WCAs that CERP envisioned. Although the
		recommended plan provides a significant increase in freshwater
		needed for the restoration of the central Everglades, additional
		actions are needed to achieve the restoration envisioned in CERP.
		The actions may include further reduce harmful discharges of
		freshwater from Lake Okeechobee to the St. Lucie and
		Caloosahatchee Estuaries and improve estuary habitat for oysters
		and SAV; further reduce the intensity, frequency, duration, and
		spatial extent of hypersaline events in Florida Bay.
CITIZEN - 8	My name is John Rosier, representing the Fulltrack Club for Dade	Thank you for your participation in the planning process and
(JR)	County. Also president of the Everglades Coordinating Council. I've	comment. A complete list of acronyms can be found in Section 10 of
Comment-1	been here from the beginning too, so I've learned more	the Project Implementation Report
	abbreviations and acronyms than I wish to in my lifetime.	

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN - 8	First of all, I want to compliment the process to get to this. I said	Thank you for your comment regarding the Civil Works Program -
(JR)	from the get-go to have the public involved, as they were in this	Pilot Study Implementation. This study process continues to use
Comment-2	pilot program or whatever, is the way to go, because just coming to	quality planning practices and is intended to increase public
	a meeting where you can make three minute comments, and that's	participation, broaden public input and shorten the timeframe for
	all you've got, and you can't ask questions is just not the way it's	completion of a pre-authorization (planning) study.
	done. And we've seen vast changes in the original plan. In fact, if we	
	weren't at the original plan, we'd have a canal and no access to the	
	area. And speaking of the gentleman that was the fishing guy who	
	represented 15,000 people, I'd like to say that my group represents	
	a few thousand people that use the area constantly, year-round,	
	which many of you don't, and many of you have never been out	
	there, you're just looking at a paper. And I say that facetiously, but	
CITIZEN - 8	And as we go on with this process, the three things that - we	Thank you for your comment.
	support the plan we support the project and we've said that from	
Comment-3	day one. The sportsmen that are out there all the time, many of us	
	have been out there for 40 50 years me 40 years myself So I've	
	coon the change live roon the good: I've coon the bad	
CITIZEN - 8	Currently the Everglades is closed because of high water I know in	Thank you for your comment. The CEDD plan does provide additional
	Carlottery and Extragalation is a constant and the control of the	mann you of your comments the carried plant does provide additional
(Jak)	my neart mat if this project was in place, we might not have that	outlet capacity from WCA-3 which will provide more operational
Comment-4	nign water, I say mignt, but I'm pretty sure with the get-away ca	nexibility within the water management system. The Draft Project
	pacity, we wouldn't have this problem we have now. And in saying	Operating Manual has only been provided for the entire project. To
	that, I want to be involved when we get to the regulation stage,	address any future uncertainties related to incremental
	when we get the project in and we want to do the operational	implementation, it is recognized that prior to implementation of
	manual. That's why I asked the question earlier is the public going	each phase, additional detailed analyses pertaining to that phase of
	to be involved, because we have certain parameters that we be	implementation will be considered in development of the Project
	lieve are good for the Glades and not good for the Glades.	Operating Manual, which will provide opportunities for agency and
		public input and review.
CITIZEN - 8	And that's another sticking point that Kim and I have had many	The objectives of CEPP to enhance ecological values include to
(JR)	conversations over. 3A is a Water	restore seasonal hydroperiods and distribution, to improve
Comment-5	Conservation Area. That's what it's called; that's what we're talking	sheetflow patterns and surface water depths and durations, and to
	about. Everglades, when you say Everglades, you're talking about	restore more natural water level responses to rainfall (for additional
	Everglades National Park, which is south of the Trial. Well, the fun	detail, reference Section 01 of the CEPP PIR). CEPP alternative
	ny part is us sportsmen, the people that are out there recreating,	configurations were developed to reduce the drainage effects from
	the guys that are in there 365 days a year, we consider 3A to be	Miami Canal in the northern portions of WCA 3A and restore more
	more Everglades than Everglades National Park. And we sincerely	sheetflow across the northwest portions of WCA 3A as well as
	do not want to see the area degraded, tree islands disappear. Many	provide additional outlet capacity in southern WCA-3A to reduce the

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	of the charts we've got show there's going to be more water there.	ponding effects caused by the levees and re-cononect WCA-3A to 3B
	North of I-75, there's going to be higher water coming in. We're	and to ENP to allow for a more free-flowing system. The Miami
	afraid the tree islands there are going to be destroyed. And we had	Canal causes water levels in northern WCA 3A to recede well below
	you know, their own modeling efforts showed that some of the	the ground surface for long periods of time, which has resulted in
	tree islands are going to have more water year-round than they	extensive and documented losses of peat soils from oxidation and
	have now.	muck fires and resultant lowering of the ground surface elevations in
		northern WCA 3A by up to 3-ft in some areas. Alt 4R2 proposes to
		reverse the continued degradation of this area by backfilling a
		portion of the Miami canal north of I-75 to remove its drainage
		effects, re-distributing inflows through removal of approximately 2.9
		miles of the south L-4 levee and increasing water flow into WCA 3A
		during the dry season. Water levels and durations within WCA 3A
		and 3B will vary across the landscape and from year-to-year if Alt4R2
		were implemented, consistent with the variability in rainfall,
		hydrologic conditions, and operations within the upstream basins
		(Lake Okeechobee, EAA, WCA 1, WCA 2). Generally, water levels in
		northern WCA-3A will stay above ground surface for longer and the
		depth and duration of the wet-season water levels will increase.
		מבלים מות מתו מנוסו כן מוני אבר פנימסון אחרכו ובירכן
		The water level changes anticipated with implementation of Alt 4R2
		are conducive to restoring a portion of the wetland hydrology that
		was lost as a result of the drainage effects from the construction of
		the Miami Canal through the marsh in northern WCA-3A. Details
		regarding the expected water level changes can be found in Section
		5 and 6 and Appendix C.2.1 and C.2.2.
		The northwest region of WCA-3A has become a dense bank of willow
		and does not provide the elevation mosaic or the plant diversity
		needed to support aquatic animals, sloughs and tree islands. And,
		this region does not currently support CERP key indicators of
		restoration, such as prey-based fauna (i.e., crayfish and fish). CEPP
		and the Adaptive Management plan are planning on using fire to
		create differential flow paths that will accentuate sheetflow and
		minimize excessive ponding. Differential flow paths will "jump-start"
		the elevation mosaics needed to restore the ridge-slough-tree island
		landscape. The CEPP plan recognizes that a regional approach to
		restoration will require that tree islands be monitored for peat

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		accumulation rates, that regions such as NW-WCA-3A will require incremental adaptive restoration because they are extremely altered, and that tree islands need to be preserved and restored.
CITIZEN 8 (JR)	So when we talk about restoration - and that's another sticking boint we're not restoring the Everelades to the way it was. That's	The formulation of alternatives and evaluation of CEPP project effects is based on peer reviewed scientific literature and approved
Comment-6	what restoration means. We have an area out there that has been affected over the years by various interests. Let's make it better. But we can make it better for everybody. You know, we still get our way. And I feel for the people up in the estuaries. And great, give us that water. We don't care. The Park says they want all of it. You know, give us all you want. Again, the water quality issue comes up, and you know, they go: Oops, sorry. And now we're sitting with the situation we have now.	RECOVER performance measures and targets in an effort to restore the Everglades to a pre-drainage condition.
CITIZEN – 8 (JR) Comment-7	So those are the things that we sportsmen are still pushing, depth, depth of the water, duration of the water and water quality issues. We seen the cattalis come into the area, especially up in the north end. We took them out for a field trip. We showed them. And we know that since the water has been clean, the cattalis have slowed down tremendously. So maybe that will work. We just don't want to see that continue when they're out there.	Thank you for your support of the Central Everglades Planning Project and your comment.
CDTIZEN – 9 (AB) Comment-1	Like John, I'm a Gladesman, going out in the Everglades with my dad. And I do have some concerns here. Kilm, you know, you guys have been great. We've been able to work with you, and we're here to work with you. We've been able to work with you, and we're here to work with you. We're not working for you or against you. I've known Dennis Duke, I guess now for 15 or 20 years, you know, and a number of people. And so we've seen cause and effect in the Everglades. Unfortunately, we've seen things that we don't have common sense in this country sometimes. You know, we're so technically minded, we kind of throw the baby out with the bath water. There's things that we could do right now to actually improve the situation in the Everglades. It's like take out the Tamiami Trail, clean out south of the 5-12 structures and let that water flow more naturally. That would be avessione. I mean that's something we could do right now for a minimal amount of money.	Thank you for your comment. The USACE and the SFWMD will undertake integration of the CEPP recommended plan and the other CERP projects awaiting authorization into the CERP programs' IDS, which contains the MISP, through a robust public process.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN - 9	! 	Thank you for your comment. Please see the response to CITIZEN-12
(AB)	what we're trying to do in the Everglades, I do have some concerns	(AB);
Comment-2	here. Our idea of restoration and your idea of restoration is	Comment -1.
	different. I mean we are in sawgrass north of 3A. And we're like	
	Chris McVoy and Fred Sklar, they're talking about making slough	
	environments. They are from two totally different environments,	
CITIZEN 9		Thank you for your comment regarding the Civil Works Program -
(AB)	see something else and that's probably why I'm concerned about,	Pilot Study Implementation. This study process continues to use
Comment-3	you know, when I see another line or I see something, because this	quality planning practices and is intended to increase public
	is, you know, happening very fast.	participation, broaden public input and shorten the timeframe for
		completion of a pre-authorization (planning) study.
CITIZEN - 9	I know we're in a timeframe, time sensitive, and vou know, it's	Thank you for your comment regarding the Civil Works Program -
(AB)	important to keen the public involved, you know, because we are	Pilot Study Implementation. This study process continues to use
Comment-4	the ones naving for it and we're the ones that you know are going	quality planning practices and is intended to increase public
	to have to live with it	participation, broaden public input and shorten the timeframe for
	ים וומאפ נס וואפ אאווו ווי.	completion of a pre-authorization (planning) study.
CITIZEN - 9	It would probably be a lot more people coming up here. I didn't	Thank you for your comment regarding the Civil Works Program -
(AB)	know if it was necessary to have a lot of people come here.	Pilot Study Implementation. This study process continues to use
Comment-5	There'll be some people more down in Miami when we go down in	quality planning practices and is intended to increase public
	Miami that, you know, have their concerns. So you know, just be	participation, increase public input and shorten the timeframe for
	cause we didn't fill this room up, we have filled this room up in the	completion of a pre-authorization (planning) study. As result, many
	past with people. And but we're not here to, you know, make a	members of the public, including those who hunt, fish, and operate
	scene or anything. We just want to see the right thing done here.	vehicles or watercraft in the water conservation areas, have been
		engaged throughout the study process and contributed to the design
-		and operation of the tentatively selected plan.
CITIZEN - 9		The Adaptive Management Plan defines the hydrologic performance
(AB)	we're going to have some adaptive management, you know, and	for each structural element of the system by monitoring and
Comment-6	we definitely want to be involved, you know, as we come up with	evaluating ecosystem response including the use of ecological
	the scheduling and all that kind of thing. But put triggers in the	triggers where ecological triggers exist.
	system where we don't shock the system. We're never going to be	
	able to restore the system, but we could actually manage the	
	system to where it could be better, you know, it would be beneficial	
	to what we have out there, or unless you want to buy a mask and	
	snorkel for a wading bird. I've seen it where all the wading birds	
	have moved out of the area because the water was too deep. We	
	reel If we can save the tree Islands, we're going to save the fur	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	bearing animals.	
Comment-7	So that's kind of how we, you know, look at these things, you know. You know, I know sometimes like when we look at a number on a chart, it's not really reflective of what's going on actually in the area. There's been a lot of operations directors of Water Management that I've talked to and I said, you know: Hey, we measured this much water out there. We've actually gone out and did the measurements and gave you that information, and it wasn't reflective of what you were showing. I don't know how or why. But, you know, these are the problems, you know, these are the things that we're concerned about, you know. We want to be involved.	The output graphics produced by regional hydrologic modeling tools, including the SFWMM and the RSM-GL, report water deptits based on comparison with the average ground surface elevation within the model grid cell that contains a particular hydrologic monitoring gauge, within most of WCA 3A, model grid cell resolution for the RSM-GL is typically 0.5-3 square miles, and local microtopography features (ridges and sloue)? are generally not captured at this resolution scale. Historical water stage information at selected monitoring gauge locations, and not water depths at these gauges, are utilized during the calibration and validation of hydrologic models. For example, the average WCA 3A 3A-2 monitoring gauge elevation is reported as 9.85 in the USGS Everglades Depth Estimation Network (EDEN) as 9.82 feet NGVD while the RSM-GL grid cell for 3A-2 is 10.23 feet NGVD. Model output should be utilized for relative comparisons between alternative simulations run with the same model tool (yersus absolute comparisons against historical water levels), and increased reliability should be attributed to model predictions of stage than to model predictions of depth.
Comment-8	It's a labor of love. I'm sorry, I hope I don't get anybody sick here. Yesterday! wouldn't have been able to make it; I was just totally too sick. But today, you know, I mustered up the energy, and oth erwise I wouldn't have came up here. But it's a labor of love, you know. We care about the Everglades. We put a lot of effort into it. It's not just, you know, a place to go have fun or recreate or any, you know, wild things like that. It's just, you know, we have mud in our blood, and we grew up out there, like John, and you know, for 100 years. You know, and it's the camaraderie. And I have four kids, and John has kids, and you know, our kids go out there with us, and we want to protect it for them.	Thank you for your support of the Central Everglades Planning Project and your comment.
CTTIZEN – 10 (LI) Comment-1	Lisa Interlandi with the Everglades Law Center. We absolutely support this expedited planning process. It has been a great effort. There's been so many opportunities for public comment, for meaningful input, for input from a variety of stakeholders and education of the public in a way that really was, before, really unseen in our restoration effort. So I think it's been a big step forward, and just the output alone, it's been a huge success,	Thank you for your comment supporting the Civil Works Program- Pilot Study Implementation. This study process continues to use quality planning practices and is intended to increase public participation to broaden the project support base and shorten the timeframe for completion of a pre-authorization (planning) study.

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	because it's really moved restoration planning forward. So I hope that this does become a model for future planning efforts.	
CITIZEN - 10	Speaking of this is the first increment, one increment of CERP. And	Thank you for your comment.
(n)	we do want to see more increments move forward, so we will on	
Comment-2	this project we will join in on the detailed comments that Ms. Capp	
	this project will have significant benefits for the Central Everglades.	
	St. Lucie estuary, the Caloosahatchee estuary, Everglades National	
	Park and Florida Bay. And you know, it reduces outflows to the	
	estuaries significantly.	
CITIZEN - 10	The 200,000 acre-feet to Everglades National Park is a huge benefit,	Thank you for your comment.
3	and it's really going to drive and has brought more attention to	
Comment-3	other projects like Tamíamí Trail bridge and the need for that to	
	move forward. So we've seen funding come in from sources	
	previously unexpected, so that's been a really great benefit, maybe	
	not necessarily because of this project, but a side, you know,	
	tangential benefit. So really, you know, this is that first increment,	
	and in order to significantly reduce the outflows to the estuaries	
	and reduce that harm and trauma that we've heard expressed, we	
	need even more storage. Ultímately we're going to need more	
	storage and ability to treat and store and convey even more water	
	south. So absolutely support this.	
CITIZEN - 10	One of the main things I think that's important is to keep this plan	Thank you for your comment. Please see response to CITIZEN-4 (DY);
(n)	ning effort moving, get this plan done. WRDA is moving forward in	Comment-3 above regarding the project schedule.
Comment-4	Congress, and I think it would be a shame to have gone through all	
	this expedited effort to miss a deadline to get authorization and	
	then see this plan put on the shelf for several more years until they	
	get another opportunity for authorization. So that is just a huge	
	thing. We really want to see this plan move forward in a way that	
	allows it to be authorized by Congress in this next session and move	
	forward to implementation, because I, and I believe many other	
	people believe I know this isn't necessarily related to what I just	
	said, but 2029 is a long time to see implementation of critical com	
	ponents of this plan.	
CITIZEN 10	So to the extent that that can be moved forward in a more	Thank you for your comment.
(11)	expeditious manner, I think that that's something that we want to	
Comment-5	see too. So thank you so much, and you'll be seeing more	entition of the control of the contr

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Appendix C.3

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CITIZEN - 11	Joanne Davis, representing 1,000 Friends of Florida. One of the	Thank you for your comment regarding the Civil Works Program -
(ap)	things that I can say is it's been ultimately frustrating for myself and	Pilot Study Implementation. This study process continues to use
Comment-1	many others of us is this huge, long timeframe. And the CEPP pro	quality planning practices and is intended to increase public
	cess breathed a little bit of fresh air into that and had us all step	participation to broaden both public input and the project support
	outside of our comfort zones or traditional operating zones and	base; and shorten the timeframe for completion of a pre-
	really get the dialogue moving along and getting the work product	authorization (planning) study.
	moving along.	
	Appreciate all the effort that went into that. That was a really great	
	program, I enjoyed all the meetings, sort of, It was hard work, but it	
	was good work. And I think that it demonstrates that, you know.	
	we, as citizens, and the various agencies can actually do something	
	-	
CIIIZEN - 11	_	Inank you for your comment. Staff Will Work as expeditionsly as
(ar)	wait. So my last parting two words: Hurry up.	possible to complete the Chief of Engineer's Report for submittal to
Comment-2		the Assistant Secretary of the Army for Civil Works and Office of
		Management and Budget for administrative review. This will occur
		upon completion of the State and agency review of the Final CEPP
		Integrated PIR and EIS. Construction will be dependent upon
		Congressional authorization and funding.
CITIZEN - 12	My name is Sean Litalien with the Broward Airboat, Halftrack and	Thank you for your comment.
(31)	Conservation Club, And I'm going to sound a little bit repetitive here	
Comment-1	because these guys have touched on a lot here. But we're very sup	
	portive of the plan. We love what you guys are doing.	
CITIZEN - 12	-	Thank you for your comment. Please see the response to CITIZEN-12
(3r)	water you guys are keeping out there in WCA 3. As we sit here right	(AB);
Comment-2	now, there's hundreds of deer dying. The tree islands are being	Comment -1,
	eroded right now, there's so much water out there. And if we just	
	keep going on for 29 years - or, no, to 2029, the tree islands are	
	going to be gone, and Area 3 is going to look just like Area 2.	
	There's nothing left in Area 2 but sawgrass. So it's really, really	
	important to us, and we're so willing to work with you guys every	
	step along the way to keep this public commentary open,	
	coordinating with us. Our clubs are so willing to work with you guys.	
	But the water levels are crucial. If we don't get the water levels	
	corrected, there's no point in restoring the Everglades.	

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN 13		The goal of the Everglades Restoration Comprehensive Plan (CERP)
(MM)	more of a question. If the lake is shooting out in this direction, and	is to capture and re-direct the water that is currently going to tide to
	it's coming down nere and it's kind of backing up for them, but the people over here, the Seminole Tribe are asking for it, what is being	restore the ecosystem and increase water availability for other water-related needs such as water supply for urhan, agriculture.
	done to take it from all the people who don't want it and give it to	municipal and industrial. The conceptual plan describes the kind of
	the ones that mentioned they would like it? That's my question.	infrastructural changes that would be necessary to re-distribute the
CITIZEN - 14	If they brought you the satellite picture of the entire watershed	Major features of the Recommended Plan for CERP included a
(AA)	from Orlando to the Keys, I remember more than 20 years ago	number of surface water storage reservoirs planned north of Lake
	when they connected reservoirs how many thousand of acres of	Okeechobee, in the Caloosahatchee and St. Lucie basins, in the
	reservoir here for conservation, was it 1,000 acre or 10,000 and so	Everglades Agricultural Area, and in the Water Preserve Areas of
	forth. In my opinion, that determined the future of the process.	Palm Beach, Broward, and Miami-Dade counties. These areas
	Could be wrong. So my question to you, if you would like to	encompassed approximately 181,300 acres and were estimated to
	comment on it, what are the roles of the planners at the Corps of	have the capacity to store 1.5 million acre-feet of water (USACE
	Engineers versus the role of the consultants?	L999).
		The CEPP is a component of CERP. The A-2 FEB, proposed as part of
		Alt 4R2 will provide storage capacity prior to delivering water to
		existing STAs. The A-2 FEB is ~ 14,000 acres.
		Planners at the USACE play a vital role in supporting the USACE Civil
		Works water resources development mission. Through planning
		activities, Corps planners help decision makers identify water
		resource problems and conceive solutions to them. The Corps may
		advertise and award contracts to environmental and engineering
		consulting firms to perform necessary work related to project
		planning, design, and construction.
CHIZEN-1 (CH)	Central Evergiades Manning Project Public Meeting – Draft MK/Els September 19, 2013 Stuart, FL CHIZENLI (CHI) Martin Country and units among the first sutherized CEOD projects Thank vou	Satisfy F. Thank you for your commant. The USACE and the SEWAMD will
Comment 1	We are the only county in Florida that's contributed \$75 million for	continue to work in partnership towards completion of the IRL-South
	CERP projects. We have contributed an additional \$50 million to	project.
	build additional storm water treatment areas in Martin County.	
	Finish the projects that you started first. The estuaries are in	
	extreme, as the gentleman sitting in the blue shirt said it right, the	
	estuaries can't wait that long. Fix them now. You're not going to	
	have another partner, ever, ever again in Florida like you have in	
	Martin County, So please reward us. Don't punish us.	

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Appendix C	

CITIZEN-1 (CH);	Specific to the PIR, Martin County would like to see in the PIR	Section 2 (Existing and Future Without Project Conditions) provides
Comment 2	improved descriptions, particularly of the project benefits to the	a description of the FWO project condition. Table 2-2 provides a
	estuary associated with the various project efforts. We also need	summary of the status of non-CERP projects, CERP projects, and
	greater details on benefits that details all of the projects that were	operational plans assumed to be implemented in the FWO project
	assumed to be completed in order for the CEPP benefits to be fully	condition. Section G.2.5 (Northern Estuaries [Alternatives 4R and
	realized; MOD waters, Tamiami Trail, C-1, C-11 impoundment, C-43	4R2]) summarizes benefits to the Northern Estuaries resulting from
	and the entire IRL strategy. You need to quantify benefit to estuaries	implementation of Alt 4R2. Figure G-29 presents the number of
	if C-44 project is completed, if it's not completed.	times salinity criteria are not met within the St. Lucie Estuary.
		Benefits attributable to the Indian River Lagoon-South project can be
		understood by evaluating differences between the ECB and FWO
		project condition which assumes implementation of C-44 Reservoir
		and STA. The differences between the FWO project condition and
		the future with project condition (Alt 4R2) are the effects of the
		project. Text has been added to this section, as well as Section 6.2
		(Environmental Benefits) to further highlight benefits attributable to
		the Indian River Lagoon-South project. Table 6-10 in Section 6.7
		(Plan Implementation) documents a number of project
		to the C-44 Reservo
		Project) and connection to the C-23 Canal.
CITIZEN - 2	I can't resist saying that somehow against vast opinion in the	Thank you for your comment regarding the Civil Works Program -
(MQ)	southern counties to not be too responsive to our needs we have	Pilot Study Implementation. This study process continues to use
Comment 1	got to get this done. We should be in first place. With that said, it's	quality planning practices and is intended to increase public
	a pleasure to welcome Corps of Engineers with something which I	participation to broaden both public input and the project support
	don't think quite fully has been brought out here. They are on a	base and shorten the timeframe for completion of a pre-
	working schedule now that's probably six times through the years	authorization (planning) study.
	they've been accustomed to using. We should rejoice in that. We	
	should join with St. Lucie County and back this effort because es	
	sentially at this time it's the only way to go on this project. We have	
	got to have that billion dollars out of the Feds on this. Now you	
	might say, haven't we been doing this all along? Well, in a sense we	
	have for a long time trying to have a big interest in this and the	
	Commissioner just mentioned our expenditures.	
CITIZEN - 2		Thank you for your comment.
(MQ)	and said on a per capita basis we have this 50 million, you ought to	
Comment 2	be putting in a billion, I then looked at the nearest exit to see if I	
	might be compelled to use it. But they contented themselves with	
	an absolute silence. But we've got to get those people somewhat	

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	on our side and we'll get our funding. And we have to argue you've got yours. You've got your flood control and water supply through the 1948-78 project, now it's our turn. We have been suffering 50 years.	
CITIZEN – 2 (MQ) Comment 3	So let us think that this is a new response from the Corps of Engineers. The job right here is an immense speedup. The Corps of Engineers A-C.P. Perhaps we should, if this goes through as we hope, that we should call them fast ACE. Let us put in our comments, but we must work with them and with other parties concerned on this. It's the only way to go. And I know they are open to sensible alternatives being suggested. And personally I'm going to get mine in by October the 5th in writing.	Thank you for your comment.
CITIZEN – 3 (MB) Comment 1	we need your help, sir. 1 the Congressmen sit t does the Corps think? We need these things	Thank you for your comment. The significant amount of water resulting from CEPP will beneficially affect more than 1.5 million acres in the St. Lucie and Caloosahatchee Estuaries, Water Conservation Area (WCA) 34, WCA 38, Everglades National Park (ENP), and Florida Bay. Staff will work as expeditiously as possible to complete the Chief of Engineer's Report for submittal to the Assistant Secretary of the Army for Civil Works and Office of Management and Budget (OMB) for administrative review. This will occur upon completion of the State and agency review of the Final Central Everglades Planning Project (CEPP) Final Integrated Project Implementation Report (PIR) and Environmental Impact Statement (EIS). Construction will be dependent upon Congressional authorization and funding.
CITIZEN – 3 (MB) Comment 2	The Clean Water Act is just being violated everywhere. Every politician that we have questioned has said to us that they consider this a violation of the Clean Water Act, but yet we can't get annote to do anything about this. They're taking about IRI. South. C-44, 25 C-23-24 and 25. And you just heard that the only component that is guaranteed to us to be addressed is the C-44 project which, of course, is three-phase project and all the pieces have to be in place before it works.	Thanks for your comments. State and Federal agencies are working to implement projects that will contribute to Everglades Restoration and improved surface water quality conditions.
CITIZEN – 3 (MB) Comment 3	Well, what about, as Commissioner Heard said, what about the property we bought that we taxed ourselves? We bought property out there. We were on an implementation list for C-23 and C-24. C-23 would have been done this year and 24 next year and we would	Alt 4R2 addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	have had the ability to mitigate some of this watershed that they now have held us responsible for. You know, water management and the plumbing that has happened here, they have more than doubled our watershed responsibilities. Naturally we're about 350 square miles to the St. Lucie River and now we have 800 square 18 miles of agricultural land that we're being held responsible for. So we taxed ourselves, we bought the property, things were engineered, they were permitted. The governor took them off the plate to buy property south of the lake. And then when we want through the economic crunch, South Florida Water Management District rearranged their priorities and we got left out. They're not going to do anything until 2026.	additional actions are needed to achieve the restoration envisioned in CERP including construction of C-43 Reservoir and RL-5 projects, to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. The implementing agencies are committed to engaging in a public process after Congressional authorization and appropriations of CEPP to integrate CEPP into the CERP Master implementation Sequencing Plan which defines the order in which CERP projects would be planned, designed, and constructed.
CITIZEN 3 (MB) Comment 4	Since 2008, three-quarters of all of the polluted water that is coming to our estuary has come into us from our own basin. Not our natural basin, but the one that we're being held responsible for.	Thanks for your comments. State and Federal agencies are working to implement projects that will contribute to Everglades Restoration and improved surface water quality conditions.
CTIZEN – 3 (MB) Comment 5	We must, along with getting this project moving forward, because we really do need this, we need to take care of our own basin. Now, I think it is absolutely obscene that we give sugar and agricultural these major breaks. We price fix, we give them subsidies, we cater to them, they write the regulations for nurrient standards and for health criteria here in our own State and yet they're allowed to take their dirty water and use our STAs. These STAs that we're paying for that are supposed to clean Okeechobee water and instead it's being used as the private toilet of agriculture.	Thanks for your comment.
CTIZEN – 3 (MB) Comment 6	Right now, right now, there's a sugar glut and we're being dumped upon all over the place and they're being protected. A little note: Not a drop of Okeechobee water is coming to us right now. 5-308 is shut. So all this water that we see, all the water coming into the C-23, it's all from our own watershed. So we need to do something about that. I would be willing to bet you that the economic losses on this coast and the other coast exceed the total value of the sugar crop in the State of Florida. The only way we can really fix this is a ballot box. Our elected officials are paying them to do this to us. They are protecting them in court and they are fighting against every single thing we are trying to do, except	Thanks for your comment.

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	at our commission level, to protect ourselves.	
Comment 7	Water Management, put us back up on the priority. We need help here. Our estuary is dying, Grant Gilmone did a study and dropped a dot in the middle of the inlet and come out 2 miles and in the circle rif's the most diverse fishery in North America. More than 800 species of fish. Dr. Grant Gilmone and Mark Perry did a study right there by where everybody goes to the sandbar. Gave us a designation of the most diverse estuary in all of North America. It isn't an ymore. They've killed it. They've killed it. Grant makes a hell of a compelling argument that the diversity of our la goon right here is more important than the Everglades. It's a valua ble conversation. He sells it pretty well. So, please, do what we got to do. Write our letters. Don't forget this at election time. Please, help these guys every chance you get because they're our only hope. We need to cooperate as has been said.	Thank you for your comment and support of CEPP.
CITIZEN-4 (DC)	I believe there is a lack of accountability of what's been going on. If it was one individual or one small industry or business that was dumping as much toxic, black water as there is other industries and our government itself; then that person would be absolutely bankrupt and sent packing, but that hasn't happened. My question is Section C.1.3 and C.11.2.3 — it identifies under water quality, major threats to the St. Lucie inlet as degraded water quality. That's it. I have a good idea why lif's degraded. And think that's a severe lack of accountability if whoever it is, the corps or Water Management, however you want to divide it up, if no one's willing to take accountability, we can't move forward. We know it's degraded. We need to know and identify why that this \$1.8 billion event, the plan, is only going to reduce our black toxic water by 23 percent.	Water management operations for Lake Okeechboee and the Northern Estuaries are designed to meet multiple competing criteria and goals such as flood protection, water supply, and water quality. There are times when not all of these criteria and goals can be met simultaneouly. The CEPP plan is one of many projects that will reduce excess flows to the northern estuaries. State and Federal agencies continue to plan additional efforts to resolve this problem.
CITIZEN-5 (SB) Comment - 1	Reduction to me is not acceptable. Why should we be happy when we drop from 3.8 billion gallons of water coming out. It's not the answer: \$800 million to help clean up the EAA run off. Why are we held responsible for th	State and Federal agencies recognize that CEPP will result in only a partial reduction in the excess flows to the extuaries from Lake Okeechobee. To address high flows, these agencies are working orther projects such as Herbert Hoover Dike Rehabilitation, Dispersed Water Management and Treatment Program, C-43 Storage

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CITIZEN-5 (5B);	tasked with enforcing federal water regulations which they haven't done by granting variances to various companies to being able to dump polluted water into the estuary and into the lakes. If it's not clean enough for the Everglades, then why is it clean enough to come out St. Lucie inlet and go out the Caloosahatchee River? And one of the last things I got is ironically watching the news in the	Reservoir, C-44 Storage Reservoir and Stormwater Treatment Area. To improve the quality of water sent to the estuaries, the FDEP, FDACs, and SFWND are developing Basin Management Action Plans (BMAPs) which will be used to achieve Total Maximum Daily Limits (TMDLs) for nutrient loading. While most of these projects are paid through general taxes, land owners within the EAA pay an "Agricultural Priviledge Tax". The proceeds from this tax are used by the SFWMD to construct stormwater treatment areas in the EAA. Thank you for your comment.
Comment - 2	last couple of months, the State of Florida is suing the State of Georgia over a lack of water. The Everglades doesn't have enough water. We've got plenty of it here. You guys can come get it. I'll be happy to stick it in the back of my truck and take it wherever it needs to go. We just need to get it done.	
Comment - 3	boats, you're out at the sandbar, you've got you're an in you water is clear, kids are playing, we're going to be right back here again. Don't forget to tell your friends, tell the people that are coming down from up north that I've already seen in bublix, getting them writing letters. Get them talking to people. Because it's seen the bad. I've been here 31 years and I've seen the good; I've seen the bad. I've talked to the old-timers that unfortunately are not going to be around to see the end of what they started. Hopefully my children who are five and three, hopefully their grandchildren will see the final product that we're all fighting here for. It's not funny. I know you laugh about it. I hope their grandkids can see the end. I've heard from the old timers what it used to be catching jewfish on the 5t. Lucie River and the crystal clear water up the Rossevelt Bridge.	function in the Northern Estuaries by reducing the number and severity of events where harmful amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. The implementing agencies are communited to engaging in a public process to integrate CERP into the CERP Master implementation Sequencing Plan which defines the order in which CERP projects would be planned, designed, and constructed.
CITIZEN-6 (DP)	In 1930 the Army Corps of Engineers began to oversee the Herbert Hoover Dike and the handling of the waters of Lake Okeechobee. Hoover Dik and Water Management District was created to manage and protect water sources from the southern half of the state. Here we are today 84 years later because of failures. We're tried of the suits, the Army Corps of Engineers, the South Florida Water Management District and the governor playing the blame game. We've seen all your drafts and charts. The water is toxic. It	Thank you for your support of the Central Everglades Planning Project and your comment.
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	has been for many years. We had an old dike completed in 1937 which is leaking. You are preparing 32 sections which will take ap proximately five years. We have a ten-mile creek which was substandardly built and nonfunctioning. Again, an epic failure. The Army Corps of Engineers is in a legal battle for the sum of \$17 mil lion with the engineering firm who designed the project. We're here tonight to support the Central Everglades Planning Project. You created this state of emergency by messing with Mother Nature. Now you need to fix it. When Imean fix it, I mean to find real concrete solutions immediately, not 20 years down the road. Lastly, to our elected officials. You need to get your hands out of the pockets of Big Sugar because we're ready to vote you out if you	
Comment - 1	We have all been fighting this and the 12 thing is that this system that was built in 1940s basically we had to dike the lake, control that flow, and we channelized the Kis simmee and we channelized it out to east and west to the Caloosa hatchee and St. Lucie. And now we're trying to repair all this. And the project that's coming up here is going to be only a first se quence, it's not enough. Lit's not near enough. 210,000 acre-feet, it's not enough compared to 1.4 million acre-feet that's going east and west on an average year. And some years like this year we far exceeded that because of all the rains that come down into the Kis simmee. It's got no capacity going south. And that hasn't been es tablished until just now starting to get some capacity to go south,	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Obsechober are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
CITIZEN-7 (MP); Comment - 2	What first needs to go into this first paragraph of this CEPP plan is What first needs to go into this first paragraph of this cope a lot that this is the first increment knowing that there has to be a lot more to be done to move 1.4 million acre-feet south. So it does not. It stops the discharges going east and west and we have no discharge, and we've got to put it all south to the Everglades the way it used to.	The CEPP is composed of increments of project components that were identified in CERP. The term "Increment" is used to underscore that the study formulated portions (scales) of individual CERP components Acknowledgement of the need for additional actions to further reduce undesirable discharges of freshwater from Lake Okeechobee to the St. Lucie and Caloosahatchee Estuaries is stated up front in the Executive Summary.

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CITIZEN-7 (MP);	What has to happen too as you heard is the IRL South plan has to be done, the water quality efforts have to be done. Everybody	Thanks for your comment.
Comment - 3	needs to understand that Restoration Strategies we hear about, that water quality project that's the State. That's a State project.	
	The State got sued in 2011 because they weren't cleaning water	
CITIZEN-7	Back years ago, '93-94, governor Chiles was the one who got sued	Thank you for your comment. The state and federal partners will
(MP);	by the Everglades National Park and that settlement turned into	equally share the cost of constructing and operating the A2-FEB and
Comment - 4	those 55 miles of STAs that we have now. We, as a State, spent \$1.2	share the incremental cost of treating the additional CEPP flows.
	binion to clear it up back then and now we're getung ready to spend another \$880 million to clean it up again. That's State mon	
	ey. That's not a Federal project. That's not a Corps of Engineers, but	
	it is a dependency on this that that portion, that central portion has	
	to be done of that Restoration Strategy so some part of that 800	
	million has got to be done. Governor Scott signed that law, 7065,	
	into effect in May of this year obligating us 32 million over the next	
	ten years. And the other ad valorem taxes are going to come out of	
	the Water Management District. So we, as a State, are having to	
	clean up, again, that EAA water which is not right. Agricultural	
	should be cleaning that water up. Definitely the total in my mind.	
CITIZEN-7	Getting back to getting his project going, everybody asks, well, are	Thank you for your comment and support of CEPP.
(MP);	you in favor of CEPP, the Central Everglades Planning Project?	
Comment - 5	have to say, yes, I am. The reason is in year 2000, when the	
	Comprehensive Everglades Plan got done and everybody says we're	
	underway, it was 68 components, part of it went to C-44, C-23,	
	that's part of those things, we went to work with an IRL South plan	
	which weren't in the original plan and we put our money where our	
	mouth is and stood up and taxed ourselves here in Martin County.	
	And it took us from year 2000 to 2007 to get it authorized and then	
	another two years to get it appropriated so it took like 9 years to	
	get that done.	
CITIZEN-7	This is a fast-track process that they started in 2011 and is going to	Alt 4R2 redirects an average of approximately 210,000 acre-feet per
(MP);	complete this year. So it's a two-year process versus a nine-year	year of clean freshwater into the central portion of the Everglades
Comment - 6	process. For that reason, I'm in ravor of let's get this rast track	that would otherwise be undesirably discharged to the Northern

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	going. And let's do this process for the next step or the second increment which has got to be a plan six project, a new plan six project that takes that total area between Miami North to River Canal where you see those arrows and make that all a flow-way, all a project, that will store, convey, and treat that water going south. All of that 1.4 million acre-feet that's now going east and west so we totally stop those discharges and we allow that flow and that restoration of the river grass. Because if we don't do that ultimately, then we're still going to be here, not next generation, but the generation after them. And I'm like you guys, I've been fighting this 35 years. I'm ready to pass the baton. But the people I pass the baton to run the next relay of this race, that next leg has to be educated. The young people in the back, the people in their suits that have come, it's great that they're here. They're getting educated as to what that next step's got to be. We've got to pass the bachon.	Estuaries. The concept of a "flowway" or broad shallow marsh area that is used to flow water freely from Lake Okeechobee to one or more of the WCAs was screened from further consideration as part of the CRP. Further information on the evaluation of this concept can be found in the C&SF Comprehensive Review Study (USACE 1999).
CITIZEN-7	Because even this, if it got authorized today, you hear it's going to	The CEPP is composed of increments of project components that
(MP);	take until 2029. That's a long time. So right away, even if we get this	were identified in CERP. The term "increment" is used to underscore
Comment - 7	going and authorized and we tell Congress, authorize this project,	that the study formulated portions (scales) of individual CERP
	meeting up in DC. On October 2nd and 3rd, I'm going to be up there and he has the Secretary of the Army who's going to be there and we're going to say to her exactly the same thing, this is fine, but it's not enough. We've got to get the next project underway right now so that in another ten years at least we get a plan six project, the whole flow-way done and get all those discharges stopped completely.	Implementation Sequencing Plan which defines the order in which CERP projects would be planned, designed, and constructed. Regarding, the reference to Plan 6 in the provided comment. The concept of a "Flowway" or broad shallow marsh area that is used to flow water freely from Lake Okeechobee to one or more of the WCAs was screened from further consideration as part of the CERP. Soil subsidence in the EAA has substantially reduced the hydraulic head that drives the southward flow of water, hence, velocities and follow rates are greatly reduced. By spreading the water over shallower areas (as opposed to reservoirs) and maintaining proper hydration of a functioning marsh habitat, evapotranspiration loss could be doubled. A "flowway" through the EAA would require the relocation of numerous roads, bridges, and railroads. Further information of humorens.
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		C&SF Comprehensive Review Study (USACE 1999).
CITIZEN-8 (JP)	I came here tonight and started looking around for the plan that	The Comprehensive Plan for Everglades Restoration provides
Comment - 1	started with eminent domain of the Everglades Agricultural Area	authorization from Congress for a framework of modification to the
	and taking all the subsidies that they got from the government and	Central and Southern Florida Project to restore the ecosystem while
	putting it towards this plan, but I didn't see it in any of the plans.	providing for other water related needs. The authorization also
	Unfortunately, I think part of the problem it's still existing.	includes provisions that require the modifications do not adversely
		affect other project purposes such as water supply and flood
		protection to the areas currently served by the water management
		system. It does not provide authority for real estate acquisition for
		the purposes of land management.
CITIZEN-8 (JP);	One thing I really don't understand that's in here that was told to	When the lake stage falls below 12.5 ft NGVD the authorized project
Comment - 2	me maybe five, six years ago by one of your predecessors, Colonel,	depth for Okeechobee Waterway navigation channel is not
	thank you for being here, they mentioned the reason that they kept	maintained. This corresponds to the lower lake levels that the Corps
	the water level on the lake so precipitously high and dangerously	seeks to maintain and is not associated with high lake levels.
	close to breaching was for navigation. I don't see anything up here	
	about holding water in the lake for navigation. And I would ask you	
	the same guestion Lasked him and didn't get an answer to at that	
	the same question is asked min and dight between the theory in the deadains the	
	ume was, ii mat was so critical, why weren't mey just dreuging me	
	channels deeper so they didn't have to hold as much water? And I	
	got no answer to it. To me it was sort of like the old joke which	
	wasn't much of a joke about a truck gets wedged under the	
	overpass and you get all the engineers out there trying to figure it	
	out, we'll cut the bridge, lift it up. The kid comes by and says, let the	
	air out of the tires. You know, let the dirt come up and you don't	
	need as much water in there and you don't have to worry about	
	doing these discharges.	
CITIZEN-8 (JP);	l live out on the C-44 and I see this stuff coming by. And I hear Big	Water quality concerns in the St. Lucie River comes from both Lake
Comment - 3	Sugar's now saying, well, it's the septic tanks in Martin County. The	Okeechobee and from local in-basin runoff. The State and Federal
	water coming in from the lake has already got the green granules in	parties are working to address this problem through the CERP
	it. It's already got that slime in it. It's not coming from on the other	projects which include CEPP and IRL-South. The state is
	side of the St. Lucie locks. It's coming out of the lake and I just	implementing its Basin Management Plan (BMAP) effort to reduce
	don't understand why you guys have to keep so much water in	stormwater runoff at the source.
	there that you have to panic every time there's a rainstorm, a tropi-	
	cal storm, or anything coming up.	
CITIZEN-9 (DD)	I'm the ecosystem manager for Martin County. As you've heard the	Thank you for your comment.
Comment - 1	Martin County Board of County Commissioners all advocated the	
	completion of the Indian River Lagoon South project authorized by	

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	Congress in 2007. The first component in the project was C-44 reservoir, and STA, that's currently under construction. We're proud partners with the Corps and the District in the completion of this vital restoration project. Our citizens, as you've heard, have volunt starily taxed themselves generating \$75 million towards the implementation of this project and we acquired 45,000 acres of land to do so. This unique and substantial partnership reflects the importance of Everglades restoration to all people of Martin County. Martin County continues to voice our support of the Central Everglades Planning Project. We recognize and appreciate the 23 percent reduction in the highest volumes of fresh water flows from Lake Okeechobee into the St. Lucie.	
CITIZEN-9 (DDI); Comment - 2	We also stress, as the Corps notes in the Pil and also what has come up in the numerous PIR meetings that occurred throughout this process that, quote, additional actions are needed to further reduce harmful discharges of fresh water from Lake Okeechobee to the St. Lucie and Caloosahatchee estuaries. We support CEPP as one of many efforts to reduce fresh water flows to the St. Lucie. Moving forward, a critical component of the restoration discussion is the need to complete the remaining components of IRL South beyond the C-44 reservoir STA. And to establish a minimum of one million acre-feet of new storage capacity north and south of Lake Okeechobee to meaningfully reduce the fresh water discharges that currently goes to the St. Lucie from the lake and the basin.	All 4K2 addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The CEPP is composed of increments of project components that were identified in CERP. The term "increment" is used to underscore that the study formulated acknowledges that further actions are needed to achieve the restoration envisioned in CERP, including additional storage capacity and construction of the C-43 Reservoir and IRL-5 projects, to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. The implementing agencies are committed to engaging in a public process after Congressional authorization and appropriations of CEPP to integrate CEPP into the CERP Master Implementation Sequencing Plan which defines the order in which CERP projects would be planned, designed, and constructed.

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Comment - 3	Specific to the PIR, Martin County would like to see improved descriptions within the narrative and graphically of the project benefits to the estuaries associated with various protect efforts. You have generalized drafts in the PIR. They're on your poster, second poster from the left back there and they show improvement to the estuary. However, those graphs do not provide relevant detail regarding to which those projects benefits are attributed and that is very important for people to understand. In order to make the benefits of this project clear and transparent so we can better explain and advocate to our congressional members the merits of both IRL South and CEPP, we ask that greater explanation be provided in the new PIR.	Please see response to CITIZEN-1; Comment – 2 above.
CTTIZEN-9 (DD); Comment - 4	Specifically, Martin County respectfully requests that the Corps edit the graphs to include greater detail on benefits as well as add language in the PIR, particularly in the executive summary, that details all of the projects that were assumed to be completed in order for CEPP benefits to be fully realized. Examples: Modified water deliveries, Tamiami Trail next step, C-11 impoundment, Restoration Strategies, C-43 reservoir in the IRL project. And also how systemwide benefits are attributed to each of those projects in the context of the CEPP benefit. This type of details will assist all of your stakeholders in understanding what CEPP entails and the benefit of what each of the related project brings to the greater Everglades ecosystem including the estuaries. We appreciate and understand the benefits that CEPP brings for use in harmful fresh water discharges to the lake and to the estuaries and we offer our assistance to your team now in addressing our comments to provide more information that can be readily.	Please see response to CITIZEN-1; Comment – 2 above.

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	understood by the public, by elected officials, or anyone who is not immersed day to day in this federal process regarding what CEPP brings to the way of improved conditions compared to other relevant restoration efforts.	
CITIZEN-10 (MS)	I live on the St. Lucie River right by the Palm City Bridge. I'm a wake boarder. So I spend as much time as I can on the south fork of the St. Lucie. So as of lately, I haven't been in for about two months which is really a bummer and I'm really worried that it might not ever get fixed so I'm here to support it.	Thank you for your comment.
Comment - 1	As a professional educator who's focused on this since, I was a freshman in high school when we were trying to pass the original CERP. The more I learn about this, the more dishearened I get. I don't know that I'm ever going to see this or that my five year old is ever going to see this come to fruition and that's upsetting.	Construction has begun on the first generation of CERP projects already authorized by Congress. These include the RIS-Project, the Picayune Strand Restoration Project, and the Site 1 Impoundment Project. The second generation of CERP projects, authorized by Congress in WRRDA 2014, include the Biscayne Bay Coastal Wetlands Project, Broward County Water Preserve Areas Project, the C-43 West Basin Storage Reservoir, and the C-111 Spreader Canal Western Project. Staff will work as expeditiously as possible to complete the Chief of Engineer's Report for CEPP for submittat to the Assistant Secretary of the Army for Civil Works and Office of Management and Budget for administrative review. This will occur upon completion of the State and agency review of the Final CEPP Integrated PIR and EIS. Construction will be dependent upon Congressional authorization and funding.
CITIZEN-11 (CL); Comment - 2	A-2 that's on that diagram, that Lieutenant Greco did say who they were finally leased by, it's owned by the State of Florida leased to US Sugar. They just, this legislative session, renewed those leases for 30 years. And I stood up at that meeting because the one woman from Hobe Sound said that 30 years was a learning experience and I said I wanted to point out that I was 30 years old and 30 years isn't a learning experience, 30 years is a damn lifetime. And 2029 is a lifetime for most people in this room.	Thank you for your comment. Please see the Real Estate Appendix D.10.1 for specific information regarding the leases on the A-2 footprintGrantor has the right to continue farming any field unless and until: farming or access for farming purposes becomes incompatible with, as reasonably determined by the District and the Corps, the initiation of actual construction or the implementation of a District/Corps Project("Project") and the required notices are given
CITIZEN-11 (CL); Comment - 3	Everybody asks me, what would happen, how can we fix this? And I always tell them if a magic fairy came out tonight and while everybody was sleeping made flow-way six happen and made it all just magically happen, it wouldn't matter. It wouldn't matter a damn bit because that lake over there, which is only part of the	Thank you for your comment summarizing \ that restoration of the Everglades and Northern Estuaries will require addressing water quality issues in Lake Okeechobee as well as in other contributing basins such as the Caloosahatchee and St. Lucie.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	problem because our own basin like Marty and Mark and everyone else knows who have been educated on this is really the biggest problem, that that lake water is 80 to 90 parts per billion. It has to be ten parts per billion to flow south legally.	
CITIZEN-11 (CL); Comment - 4	So if that fairy showed up and made it all happen as far as these graphs, it wouldn't make a damn difference. That's what everybody should be upset about. Everybody should be upset that the EAA is pooping in our lake. And the Kissimmee River needs to be finished. We need to finish the Kissimmee River. We need to finish the We have people working at the county tirelessly day after day about our own basin runoff.	Thank you for your comment. The USACE and the SFWMD will continue to work in partnerships towards completion of the Kissimmee River Restoration and IRL-S projects.
CMZEN-11 (CL); Comment - 5	And I really hope that when December comes around hopefully when the discharges end that we don't all just fall asleep. I don't think anybody in this room will. But I hope that you make sure your neighbors know about this and keep the fight up. They're all waiting for it to go away. They're waiting for us to be quiet.	Alt 4R2 addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP, including construction of C-43 and IRL-5, to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. The implementing agencies are committed to engaging in a public process to integrate CEPP into the CERP Naster Implementation Sequencing Plan which defines the order in which CERP projects would be planned, designed, and constructed.
CITIZEN-12 (DV) Comment - 1	I'm a member of the Marine Cleanup initiative. Today I'm here as one of the 15,000 demonstrators for the safety of the Indian River Lagoon. I was told last night that we're really 35,000, but I don't want to quibble on numbers.	Thank you for your participation in the public meeting.
CITIZEN-12 (DV); Comment - 2	But since we're talking about numbers right now which one of you is the environmental person? What is the acceptable loss that you put into your charts for our estuary as far as sea grass loss, or animal loss, or human loss because of disease? Because when I	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where harmful amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE
	asked yesterday was it considered into the matrix and modeling that you did in consideration for the lands and for the people south outs, what is the basis? What is acceptable for you? A hundred percent? Because our sea grass loss in the St. Lucie estuany right	akthownedges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salimity that are extremely detrimental to estuarine communities. No additional

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	now is about \$640 million worth of economic loss. So did you figure that in? I would like to see that in the report.	losses of seagrass will occur due to this project, CEPP will reduce the number of freshwater releases, thus providing a benefit to the
		seagrasses.
CITIZEN-13 (TG) Comment - 1	First I would like to thank Mark Perry and several others in the room for carrying this fight on for twice as long as I have. I got started on it in seventh grade when I did my seventh grade science project on the Everglades restoration entitled "Everglades: Man	Thank you for your comment.
	Destroys, Man Restores." And I thought I would be fishing in clean water in Lake Obsecthobee and the Florida Bay sometime about the time when I got out of high school, maybe college. I'm about to turn 40. I've lost \$6,000 this summer in charters.	
CITIZEN-13 (TG); Comment - 2	I'm up here to applaud CEPP. And please, please, please check all the boxes and get this done and get it in the Chief's report, get it authorized and let's get it funded. I will go to DC a thousand times, I'm up there twice a month anyway, to help you with that if possible.	Thank you for your comment.
CITIZEN-14 (GM) Comment - 1	About a year ago I authored a paper about the dead zone in the Gulf of Mexico. Had no idea that after spending eight and a half months in Key Largo that I was going to move back into my house in Stuart and find the same thing.	Thank you for your comment.
CITIZEN-14 (GM); Conment - 2	I saw friends of mine put out of business. Hence the poisoning of prosperity of people. I said, well, what prior planning didn't go into that? And that's not an indictment of Colonel Greco or the Corps. It's been going on for years and you all know it. I just want to amplify the comments that have been made; let's not go to sleep now. Let's keep this awake. And let's not forget that, didn't this happen what seven, eight years ago? What are we going to do, just wait another eight years? We really can't. What we've got to do is stay active now without vitriol. Without any negative comments. We just need to be active and take responsibility for our own backyard because the whole not in my backyard mentality has never worked.	The Recommended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from lake Okechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the restoration envisioned in CERP and to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities.
CITIZEN-15 (JT) Comment - 1	The whole point of it is the point is Congress, period. If the money is not there, they're not doing it. And, right, the money's not there. I	Thank you for the comment. Congress cannot appropriate funds for this project until after it is authorized.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	asked the question earlier: Do you have the \$1.8 billion? No. It's sitting there in transformation, so forth and so on.	
CITIZEN-15 (JT); Comment - 2	Under the sequester, the Corps is not getting any money. So you got to go to Washington. The Corps right now is borrowing money from FIND to do projects up and down the cost here because they	Thank you for the comment.
CITIZEN-16 (MG)	don't have the money. It all comes from Longress. I want to reiterate what that young man said, we need to talk to our politicians. We need to talk in the voting booth. Demand they reappropirate. Move money around and bring some home. Bring our soldiers home ston the war and est money right here.	Thank you for the comment.
CITIZEN-17 (DM) Comment - 1	My name is Donna Melzer from Martin County Conservation Alliance and I'm here to support CEPP. We agree with all the comments that have been made.	Thank you for your comment.
CITIZEN-17 (DM); Comment - 2	The alliance was represented many, many years ago by Max Quackenbos when he was a very young man. So it's frustrating, but it's critical that we want to stop the water coming from the north so much, get more water going south, but CEPP needs to start now because even though it's not enough, it's still a start and we have to start somewhere.	Thank you for your comment.
CITIZEN-17 (DM); Comment - 3	We support CEPP and hope that you move forward. And we believe that you can get it done if they tell you that you can get it done. So we're asking you to please get it done in time for the authorization because if the authorization isn't there, you're not going to get the money on the projects. We need the authorization in December.	Thank you for your comment. Please see response to CITIZEN-4 (DY); Comment-3 above regarding the project schedule.
CITIZEN-18 (MM) Comment - 1	Last night there was a bit of a discussion about the Seminole Indian Reservation located just west. And today on the phone with them they mentioned that they do have reservoirs that were already put in place, but they're not holding water. That they tried it a couple of times but the water would just go through and it was something time was brought up. We're all dealing with time constraints and limited money.	Section 5.3.2 of the PIR has been updated to include a description of the western basins and discussion of the Tribe's request for CEPP to consider opportunities to re-direct water from Lake Okeechobee to the western basins for the purposes of restoring natural areas within the Seminole Big Cypress Reservation and the adjacent Big Cypress Natural Preserve.
CITIZEN-18 (MM); Comment - 2	So one thing is that black line to the Miami Canal, if we're trying to go back to natural, original flow which is not east and west, it is south, we would love to see that black line going across our two channels. And if there's some way that can stay open whether it becomes a tunnel that still goes through and continues out. If that	The Comprehensive Everglades Restoration Plan (CERP) outlines the framework for modifications to the Central and Southern Florida water management system to capture water currently being discharged to tide and re-direct that water through storage, treatment and conveyance to restore the ecosystem while providing

CEPP Final PIR and EIS

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	just keep flowing out and could create a greater reduction on both	for other water related needs. The CEPP plan is a first step in
	of our coasts as well as connecting just at the end that red line to	infrastructure improvements necessary to re-direct some of the
	the Seminole Reservation where they have two holding areas	water currently going to the estuaries when it is not needed. The
	already that need to be if their water is going quickly through it,	idea of lining the Miami canal has been considered in the course of
	that's great. What's going on? Let's access things that seem to be	various planning efforts for CERP, however, it was eliminated due to
	more affordable.	the high construction and maintenance costs.
CITIZEN-19 (JC)	First of all, I think we should appreciate what has been done. The	Thank you for your comment regarding the Civil Works Program -
Comment - 1	expedited planning process. I believe it's well researched. Recognize	Pilot Study Implementation. This study process continues to use
	that this is part of many different plans. And all those plans are	quality planning practices and is intended to increase public
	needed whether they're north of Lake Okeechobee, south of Lake	participation, broaden public input and shorten the timeframe for
	Okeechobee, east of Okeechobee, west of Okeechobee and in Lake	completion of a pre-authorization (planning) study.
	Okeechobee, The non-CERP projects, first generation projects,	
	second generation projects.	
CITIZEN-19	The study, however, for this project was completed. It's well	Thank you for your comment and support of CEPP. Staff will work as
(JC);	thought out. I'm happy that the planning process is coming to a	expeditiously as possible to complete the Chief of Engineer's Report
Comment - 2	close. But I don't want you to forget, the next stage is the permit	for submittal to the Assistant Secretary of the Army for Civil Works
	process and we want to expedite that. I want to get these projects	and Office of Management and Budget for administrative review.
	under construction. I would like to say tell us how we can build this	This will occur upon completion of the State and agency review of
	project in ten years. I think that's what our goals should be right	the Final CEPP Integrated PIR and EIS. Construction will be
	now is ten years.	dependent upon Congressional authorization and funding.
CITIZEN-19	I want you to put innovations in the projects in both the final design	Thank you for your comment. During screening of project
(JC);	of construction because that's what it's going to take. We're not	management measures (Section 3), one of the criteria used in the
Comment - 3	going to solve everything with this first plan right here. But when	evaluation and acceptance of specific project feature was future
	we get under construction and when we get under design there will	compatibility, in light of the understanding that CEPP is an increment
	be ways to make innovation happen. I want to make sure the plan is	of full restoration.
	expandable because we all know this is only one part of a future	
CITIZEN-19	VIGILIA	The construction of any recommended plan features would have a
	And last but not least, I think everybody keeps torgetting this is	beneficial offect on employment and demand for local goods and
Comment - 4	going to bring a lot of jobs. This and many of ail the other	senicist of the construction period. See Section 4.5.3 (Beginnal
+ 1	projects. If there's one thing that Florida needs, it's jobs. I think	Services during the construction period. See Section 4.5.5 (neglocial
	if you look at it there's 7.5 million people that are in this service	cronding Developing it Account (NEDJ) for talking information.
	area. We put a lot of those people to work. Not every one of	
	them. But if put how much money each one of them would	
	contribute to this it would be very insignificant to this number	
	that you're talking here.	
CITIZEN-19	Now I know this takes a lot of money. The last thing I would like to Thank you for the comment.	Thank you for the comment.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
(JC); Comment - 5	just remind you all is that the fight is not here in south Florida, the fight is not with the Corps of Engineers, the fight is going to be in	
	Tallahassee and Washington finding money. Everybody else has said it, we just need to get to the politicians and get them to give you guys the money to do this. Whether they give it to the Corps or	
	whether they give it to the State, let's remember it's a 50/50 partnership.	
CITIZEN-20	I work for Audubon Florida. We're a conservation group. We've	Thank you for your comment.
(rd) Comment - 1	been working in the Lyergianes for more than a number years. One of our waters got killed protecting a plume bird. We very strongly common't trainers and the control of the protection of the p	
CITIZEN-20	When I started studying the numbers of the volumes of water that	Thank you for the comment. The PIR/EIS recognizes the need for
(PG); Comment - 2	was getting into the lake didn't have anything to do with except harmful stuff which is astronomical the amount of pollution going	additional storage, and that future opportunities exist to provide benefits that extend beyond this increment of restoration.
	into the lake. We're trying to figure out how to take care of that. This project is trying to sand some of that water south so it doesn't	
	harm us. When these latest round of releases started there were	
	people calling me up, Paul, where can we put this water so they don't dumn it the estuary At that noint we were releasing down	
	the estuary about 25,000 acre-feet a day. That's enough to cover 40	
	square miles at one foot deep, 40 square miles. So they're like,	
	what can we do with it? I'm like, well, you know, if you found someone that owned 40 square miles of land you could say can we	
	put one foot of water across your land? And if they said, sure, go	
	ahead, well, you would have to figure out how to get it on there.	
	now would you get 40 square miles of water on someone's land? That would take care of one day. So the next day you have to do it	
	again and the next day and the next day. It starts piling up and you realize, wow, this is just immense volumes of water.	
CITIZEN-20	When you have these big problems and these long-term problems	Thank you for your comment and support of CEPP. The
(PG); Comment - 3	and this doesn't get us all the way. It's a very good first step. It's going to start opening up the southward pathways. After we get	reconfirmended Plan addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and
	this done we're going to have to do more projects and move even	severity of events where harmful amounts of freshwater from Lake
	more water south.	Okeechobee are discharged into the estuaries. The USACE acknowledges that additional actions are needed to achieve the
		restoration envisioned in CERP and to help reduce turbidity,
		sedimentation, and moderate unnatural changes in salinity that are

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COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		extremely detrimental to estuarine communities. The implementing agencies are committed to engaging in a public process to integrate CEPP into the CERP Master Implementation Sequencing Plan which defines the order in which CERP projects would be planned,
CITIZEN-20	But I'm not so concerned about when we're going to get done with	vesigned, and constructed. Thank you for your comment. Please see response to CITIZEN 4 (DY); Comment: 2 should continue the president exhaults.
(PG); Comment - 4	this, i'm concerned about when we're going to get started. Let's get going on this because our future has got to change. What this hearing tonight is about is getting this approved, getting the Water Resource Development Act in Congress. And if we don't get it in there, that authorizes them to move forward. If we don't get it in there this year, they may not do another one for several years and then there will be no activity on this at all. None. It will just stop.	Comment-3 above regarding the project schedule.
CITIZEN-21 (JB) Comment - 1	This year's estuaries troubles has brought heightened interest by the people. And I want you to keep that up. Write to Congress. I think what's been said before, write to Congress, get in the word, get it authorized and also get it appropriated. We need some of our initial IRL things appropriated. Write to the governor and the legis lators in Florida that we need more money than they're giving us.	Thank you for the comment.
CITIZEN-21 (JB); Comment - 2	You may realize that back in the day of Florida Forever we were getting 300 million for things like this. We're getting like 9 million this year I think it was.	Alt 4R2 addresses the need to restore ecosystem function in the Northern Estuaries by reducing the number and severity of events where undesirable amounts of freshwater from Lake Okeechobee are discharged into the estuaries. The USACE acknowledges that
	Anyhow we also need that C-23, C-24, C-25 to be done as soon as possible. And we need that south flow. We need to let the water out of the bottom of the lake.	additional actions are needed to achieve the restoration envisioned in CERP, including construction of C-43 and IRL-5, to help reduce turbidity, sedimentation, and moderate unnatural changes in salinity that are extremely detrimental to estuarine communities. The implementing agencies are committed to engaging in a public process to integrate CEPP into the CERP Master Implementation process to integrate CEPP into the CERP Master Implementation process to integrate CEPP into the CERP Master Implementation sequencing Plan which defines the order in which CERP projects would be planned, designed, and constructed.
CITIZEN-22 (U)	Please make an effort to finalize CEPP. So much depends on this. CEPP is the catalyst for restoring the Everglades, Lake Okeechobee, the St. Lucie and Caloosahatchee Rivers, as well as all related waterways. Please don't just let this slide. There will come a point where damage to the environment will be irreversible. It's very soon.	Thank you for your comment. The significant amount of water resulting from CEPP will beneficially affect more than 1.5 million acres in the St. Lucie and Caloosahatchee Estuaries, Water Conservation (WCA) 34, WCA 3B, Everglades National Park (EIN) and Florida Bay. Staff will work as expeditiously as possible to complete the Chief of Engineer's Report for submittal to the

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		Assistant Secretary of the Army for Civil Works and Office of
		ivianagement and budget (Uivib) for administrative review. This will
		occur upon completion of the State and agency review of the Final Central Everalades Planning Project (CEPP) Final Integrated Project
		Implementation Report (PIR) and Environmental Impact Statement
		(EIS). Construction will be dependent upon Congressional
		authorization and funding.
CITIZEN-23	I want to thank you all for your efforts, but I have to say that after	Thank you for your comment. CEPP is an increment to restoration
(NB)	all this time and money, seeing the releases reduced by 23 percent	and the PIR/EIS reflects that future opportunities exist to provide
Comment - 1	is still devastating. If we got 23 percent of we just got, the lagoon would still be dead so I'm a little concerned about that.	benefits that extend beyond this increment of restoration.
CITIZEN-23	I do ecology tours and wildlife tours at the estuary. And as you can	Thank you for your comment. The Recommended Plan addresses
(NB);	note, I'm sure that my tours aren't very busy right now. I'm being	the need to restore ecosystem function in the Northern Estuaries by
Comment - 2	criticized for not finding good things out there, but I've got to tell	reducing the number and severity of events where undesirable
	you they're pretty hard to find right now. I'm concerned that by the	amounts of freshwater from Lake Okeechobee are discharged into
	end of year we're not going to have any live sea grass. And if we	the estuaries. The CEPP plan is an increment of restoration and the
	have no seagrass, we have no life.	first step towards re-directing water from Lake Okeechobee away
		from the estuaries and restoring the central Everglades ecosystem.
		The USACE also acknowledges that additional actions are needed to
		achieve the restoration envisioned in CERP and to help reduce
		turbidity, sedimentation, and moderate unnatural changes in salinity
		that are extremely detrimental to estuarine communities.
CITIZEN-23	So I heard a lot of comments of water quality standards and how	Thank you for your comment.
(NB);	we have to keep the water quality standards for every place else	
Comment - 3	this is going. But I'm wondering why the Indian River Lagoon, the	The FDEP has established Total Maximum Daily Limits (TMDLs) for
	most viable diverse estuary in North America, it's the only one we	nutrients in the Indian River Lagoon. State and Federal agencies are
	don't have to worry about the water quality standards of.	working to address water quality and quality issues that affect the
		Indian River Lagoon.
CITIZEN-24	I'm a second generation Floridian right here in Stuart. Somebody	Thank you for your comment. Evergladesplan.org contains much of
(CH);	was saying it took 20 years to build all this, the Army Corps of Engi-	the history of the Central and South Florida Flood control project.
Comment - 1	neers, to put the dike around the lake. How long did actually take to	
	stop the water flow? Do you know how many years that took back	The Comprehensive Plan for Everglades Restoration provides
	in the 40s before all this happened and it all flowed naturally?	authorization from Congress for a framework of modification to the
		Central and Southern Florida Project to restore the ecosystem while
		providing for other water related needs. It does not provide
		authority for real estate acquisition for the purposes of land
		management.

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Appendix C.3

COMMISSION	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
CITIZEN-24	To me they should be able to undo what they did pretty quick with	
(CH);	the equipment we have these days. And with eminent domain and	
Comment - 2	Big Sugar, take it back over and say, hey, sorry. Just do it. You would	
	take one of our houses in a heartbeat if you wanted to build a road.	
	It's all about money. Let's get off the money and let's get what's	
	good for the environment much less what everybody wants. I	
	mean, you're killing Florida. It's sinking anyway, but you're killing it	
	so much faster. I don't get it. You screwed it up, now you got to fix	
	what you screwed up.	
CITIZEN-25	I'm from the coal regions of Pennsylvania and if you ever want to	Thank you for your comment. The Recommended Plan addresses
(AB)	see devastation of your environment, that would be the place to	the need to restore ecosystem function in the Northern Estuaries by
Comment - 1	go. But I just want to say, if you go back to those towns now, it's	reducing the number and severity of events where harmful amounts
	welfare. That's all it is welfare right now. That was because of the	of freshwater from Lake Okeechobee are discharged into the
	coal barons. I can see the sugar barons doing the same thing to our	estuaries. The USACE acknowledges that additional actions are
	economy down here because this is paradise down here, but I can	needed to achieve the restoration envisioned in CERP and to help
	see it being devastated and ruined. I see that with dolphins, the	reduce turbidity, sedimentation, and moderate unnatural changes in
	manatees and the fish. People are going out of business, You're	salinity that are extremely detrimental to estuarine communities.
	talking welfare down here too. That will be the future of these peo	
	ple being put out of business.	
CITIZEN-25	Yet when you look at sugar, sugar got 80 million this year in subsi-	Thank you for your comment.
(AB);	dies. Between Louisiana and Florida, they got 2.3 billion and yet	
Comment - 2	these people are being put out of work. Just like the coal regions	
	with the coal barons. You have the same sugar barons. It's the same	
	group of people. They probably all congregate and figure how	
	they're going to do as much damage as they can without us com	
	plaining.	
CITIZEN-26	Other parts of the country where we're releasing waters that need	Replacement of the existing regional canal system outlet structures
(RH)	to be released, they're releasing it in a way that the top of the	would require additional analyses to determine cost-effectiveness
Comment - 1	water is released by a spillover versus just opening up gates the	and eligibility for Federal cost-sharing.
	way you guys are doing it and letting all the heavy nutrients,	
	phosphorus, nitrogen, the sludge to come out. Would that be a	
	simple short term? That's my thought.	
CITIZEN-26	What about cutting open some channels. I know you don't have the	The CERP authorized the USACE to consider modifications to the
(RH);	money even to take care of St. Lucie Inlet, but opening up channels	Central and Southern Florida water management project. Cutting
Comment - 2	on the barrier island to let the tidal flow flush out every six hours so	channels through the barrier islands to flush out the estuaries is
	that we can get some of that stagnant filthy water that is killing	outside the scope of the authorization to modify the water
	everything, pumped out.	management system.

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COMMENTER	AGENCY/PUBLIC COMIMENT	CORPS RESPONSE
CITIZEN-26	Can we pump the water instead of down Caloosahatchee and the	The USACE must consider cost-effective solutions associated with
(RH);	St. Lucie, why can't we pump it out 2 or 3 miles out into the ocean?	modifications of the Central and South Florida water management
Comment - 3	I know we're talking about a lot of money, but this whole project is	project.
	costing money and not going to be done until 2029 and there's not	
	much to save at that point so I'm just throwing that out to	
	everybody to see if that makes any sense at all.	
Central Everglad	Central Everglades Planning Project Public Meeting – Draft PIR/EIS September 25, 2013 Homestead, FL	3 Homestead, FL
CITIZEN-1	Thank you. Actually, my cousin, Maggy Hurchalla, who some of you	Thank you for your comment. Staff will work as expeditiously as
(ND)	may know, she's a former Martin County Commissioner very	possible to complete the Chief of Engineer's Report for submittal to
	involved in Florida water issues, cannot be here tonight, so she	the Assistant Secretary of the Army for Civil Works and Office of
	asked me, enlisted me to come and just read this short message.	Management and Budget for administrative review. This will occur
	To all you folks here who worked on the plan, thank you. You're	upon completion of the State and agency review of the Final CEPP
	heroes. It's ironic that the Corps is usually criticized for going too	Integrated PIR and EIS. Construction will be dependent upon
	slow. Now some people are criticizing you for going too fast.	Congressional authorization and funding.
	Please don't slow down. The effort and dedication you have put	
	into creating this plan cannot be wasted by stumbling now; you	
	have created a good plan you can be proud of. It does not begin to	
	solve all the problems of the Everglades and coastal estuaries and	
	all the other places. We got the water wrong, it never claimed to.	
	It does make things get better. It is a first step. And if we don't	
	make the first step, we go back to go. People have criticized CEPP	
	because it doesn't make things better fast enough. If we stumble	
	on the first step, things will go even slower, the estuary will die and	
	the Everglades won't be far behind. There has been a lot of	
	unhappy speculation that even with our enthusiastic support, the	
	Corps in Washington can't get through all the required approvals in	
	time for CEPP to be included in the WRDA. Please pass this	
	message on to the Corps in Washington. They can be heroes too.	
	They can make it happen, and if they do, the Corps will have set a	
	new standard what it can do. I don't expect all those that like to	
	throw rocks at the Corps, whenever water goes the wrong way, to	
	stop throwing rocks. But you have proved that the Corps of	
	Engineers is the group that actually did something to get the water	
	right. Thank you,	ана апельтор наприненталистично пределения польтор по поставления польтор поставления поставления поставления по
CITIZEN-2 (DB)	Good evening, Debbie Brady, the Executive Director of the Dade	
Comment - 1	County Farm Bureau. And again, I thank you for coming to Homestead. Our comments started with the current conditions.	For the CEPP Pitk, both water quality evaluation and the analyses for CEPD accordated with Section 601(b)(A) and 601 (b)(S) of WBDA 2000

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	Excessive water is moving to South Florida naturally. Phasing water into areas efficiently was your words. With the CERP that might work. But first, we have water quality standards, and there's a concern already in 3A and 3B. Our members are concern that the implementation of the proposed deviation will result in a negative impact on privately on lands, ag lands in Miami-Dade County.	and the Programmatic Regulations for the CERP (33 CFR Part 385) for Project-Specific Assurances and Savings Clause were conducted for the recommended plan. The level of detail and associated risks have been affirmed as sufficient for the CEPP planning effort. The next phase of the Corps Civil Works process is the preliminary engineering and design phase that will refine project design, risks and costs. The USACE District Engineer will ensure that Project-Specific Assurances and Savings Clause requirements are met per applicable policies and laws. Compliance with the requirements for water quality and the Savings Clause will be maintained throughout the entirety of the CEPP implementation period.
Comment - 2	It's very important to complete your Mod Waters project. Five hundred million invested, approximately 200 million to complete. Doubling the capacity of the 356 pump station where there's problems currently existing is not what can work. Our problems we see, we want to help solve those with you. We want to point them out and we want to help share the information with you. When you're going —when are you going to finish Mod Waters? We would like to see that you can complete that project and what it will —I'm sorry —we would like to see that you can complete that project and it will do what we were promised it would do before we support a whole new project to put more water into the same area. Thank you.	The Corps is actively pursuing operational testing (relaxation of G-3273 gage operational constraint and 5-356 test) to utilize the constructed Modified Delivery Project Features. Planning for the G-3273/5-356 field test has started but is not complete and necessary approvals (including FDEP) have not been attained. Information from the test will be used to develop the Final Water Control Plan for the MWD project which will allow for re-distribution of existing water flow from Western Shark River Slough to Northeastern Shark River Slough. The Corps anticipates an operational plan and completion of MWD prior to CEPP implementation.
CITIZEN-3 (JR); Comment - 1	Yeah, I was at the meeting in Palm Beach and of course after you go home and you realize, oh, I should have said this, I should have said that, I should have said that of so, ont going into my long speech that I had that time, I just wanted to first of all say, John Rosier, president of the Everglades Coordinating Counsel, also president of the Full track Conversation Club, Dade County, we represent user groups. We're the ones that are out there all the time. I forgot to mention the Native Americans, the Seminoles, and the Miccosukees are also out there, so we have a lot of the same concerns.	Section 6.7.1 (Implementation Phases and Construction Sequencing) has been edited since the release of the Draft PIR/EIS for public review on August 29 th , 2013. Project features are grouped into three separate PRAs based upon the spatial distribution of the project features and the locations within the CEPP study area where separable hydrologic and environmental benefits would accrue. These groupings include a PPA of project features in northern WCA 3A (PPA North), a PPA of project features in southern WCA 3A, 3B, and ENP (PDA South), and a final PPA which provides the new water and required seepage management features that benefits the

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	One of the things I noticed in your presentation packet is the	entirety of the study area (PPA New Water). The Final PIR/EIS
	implementation phase. Basically the problems we have now is the	presents two potential implementation sequencing scenarios that
	Everglades being close due to high water. To me, it seems kind of	are possible with the three separate PPAs currently identified: 1) PPA
	funny that we're going to start on the north end. We can aiready	North → PPA South → PPA New Water and 2) PPA South → PPA
	push water south really easy right now because we've done it. So I	North → PPA New Water. With each scenario, non-CEPP project
	would just suggest that in the phase in the end of the project that	features and non-CERP project features identified as project
	the south end is really the place to start first, to start getting some	dependencies in Ta ble 6-10 of the Draft PIR/EIS still apply.
	of that water. To start with, we can't get the water we've got in	
	there now – now right now. If we had some of these projects in	Other viable options for the implementation of project features and
	place, we wouldn't have the problem in the Glades being closed	subsequent groupings into PPAs may be considered in the future and
	right now.	is acknowledged within the Final PIR/EIS.
CITIZEN-3 (JR);	And one of the other things I, again, back to habitat. I don't want to	The objectives of CEPP to enhance ecological values include to
Comment - 2	see us destroy one habitat to create another. That's been said over	restore seasonal hydroperiods and distribution, to improve
	and over again for the last two years. I still feel this is there's a	sheetflow patterns and surface water depths and durations, and to
	there's a push to make this an aquatic area instead of a fur bearing	restore more natural water level responses to rainfall (for additional
	area, which it is now. I've always said you're not going to restore it	detail, reference Section 01 of the CEPP PIR). CEPP alternative
	back to the way it was. Let's use what we've got, make it better.	configurations were developed to reduce the drainage effects from
	You know, it can work all the way around.	Miami Canal in the northern portions of WCA 3A and restore more
		sheetflow across the northwest portions of WCA 3A.
		The water level changes anticipated with implementation of Alt 4K2
		are conducive to restoring a portion of the wetland hydrology that
		was lost as a result of the drainage effects from the construction of
		the Miami Canal through the marsh in northern WCA-3A. Details
		regarding the expected water level changes can be found in Section
		5 and 6 and Appendix C.2.1 and C.2.2.
		Section 5.1.6.5 states that CEPP implementation may negatively
		affect some mammals dependent upon upland habitat. Due to
		increased water flow and changes in water distribution it is
		anticipated that overdrained areas in WCA 2 and northern WCA 3A
		will be rehydrated, triggering a vegetation transition from upland to
		wetland habitat. Although mammals occurring within the action
		area are adapted to the naturally fluctuating water levels in the
		Everglades, there is an increased potential for this vegetation
		transition to have a moderate adverse effect negatively affect
		mammals using upland habitat. Similar language about mammals

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		that are dependent upon upland habitat is included in the third paragraph of Section 5.2.6.5.
CITIZEN-3 (JR); Comment - 3	And the only other thing is, the water quality issue, which is going to be a big sticking point, please, don't make Area 3 a giant estuary. Because I can see maybe some of things would make create north of the SDA, we can solve a lot of that and - The only other comment is that we can really cure all of this if we took evary the sugar subsidies, because we have lots of land up in Central Florida.	The CEPP project will not convert WCA-3 into a giant estuary. The project is intended to modify the hydrology of WCA-3 so that it better matches pre-development conditions.
CITIZEN-4 (DC)	Veah, I'd just like to emphasize a few of things that John brought up. I'm really not on board with the knocking the established environmental areas, the —the backfilling of the Miami Canal. It—it takes so long for these areas to bounce back, the minute you guys go in there and whether you're digging a drainage canal or you're building a levee. I've already seen the L-5 levee to the north of Water Management Area 3 in my lifetime, and it was beautiful as a kid, and — and there was so much habitat up along that levee and gone. You know what I'm saying. And — and — and I just. —I'm a property owner up in Kissimmee and I see the way that the Corps and South Florida Water Management work. It's a — it's a jump, think, and — and I agree with some of the things that were said—fast track, things need to get taken care of expeditiously, but to just the water is doing to it, not without buildozers and — and dredges and all of that crap, we really need to make sure that this project is going to work. Thank you.	Thank you for your comment. Please see the response to CTIZEN-12 (AB); Comment -1.
CITIZEN-5 (EK)	Good evening, my name is Eric Kimmel. Start out parroting Damon and John Rosier's comments, I agree with them. You said, you stated earlier you have been taking comments for 15 years. Actually, it's been a lot longer than that. You know, Tom surely was making comments 25 years ago saying the exact same thing, that you guys are stacking the water too high. I got charts from years ago, from the 80's, where you guys, just 18 inches of water being stacked, destroyed hammocks of 100 to 150 year old trees. I've got pictures that - that -recommended water seasonal that would have been more traditionally historical amounts of water, the lengths of times, but every time you would stack water for a longer duration that what, you know, go over six weeks in some areas at	Thank you for your comment. Please see the response to CITIZEN-12 (AB); Comment -1. Operations of WCA-3 are governed by federally approved Water Control Manual which outlines the operating criticita for inflow and outliow structures based upon water levels within WCA-3A. Modifications to any Water Control Manual is done through appropriate coordination with other federal and State agencies and the public. Deviations from an approved Water Control Plan require approval from the Corps South Atlantic Division.

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	eight inches and wipe out the area. And the facts have been given	
	to the Army Corps many times over the years, and it's just	
	repetitive, repetitive comments. I've seen Mr. Shirley give you guys	
	the same comments time and time again, and you keep coming	
	back with plans that are showing that you're just going to stack the	
	water. You have no triggers to release it. You also don't have, like	
	right now, ENP tells you not to let water go south of the Trail, in	
	areas, so either the Army Corps has control of the water or it	
	doesn't. Right now, ENP simply uses our land for their own private -	
	- as a private laboratory for their own experiments, and the costs	
	have been higher in the north and Central Everglades. I have	
	pictures of the devastation. I have some - I have another book,	
	when the Market's families were here in the 1800's. There is an	
	article in the Sun Sentinel saying that there was high water all over	
	the place. Meanwhile, this family, he was saying there was no deer	
	hunting going on up there, and I have written histories from that	
	family stating they hunted that area. So I'm really concerned about	
	you don't have any real control of the water or the depths.	
	Everything that's - you don't have any triggers that says you're	
	going to release that water without damaging that environment.	
	And until you have triggers and real releases, because right now,	
	and like they stated earlier, they could move that water out of 3A	
	right now. There's enough water. Even with the old culvert system,	
	as calm as they are, if they had opened the levees years ago, even	
	the Miccosukees even brought it up several times, that they could	
	have you could have brought a lot of water through to ENP, but	
	ENP, apparently controls Army Corps or does Army Corps control	
	the water. I mean, what is it, you know.	
CITIZEN-6 (AB	You guys talked about 17 acres on the Miami River, and there are	The purpose of backfilling the Miami Canal and removing the spoil
Jr.);	miles of tree islands out there now. Those 17 acres, we're losing a	mounds is to render the Miami Canal invisible hydrologically and
Comment -1	lot. You know, there's way more than 17 acres there. I'm not sure	ecologically at a landscape scale and eliminate the harmful drainage
	how much there is, but I know it's a lot more. And the trees that	effects that the Miami Canal has on the interior Everglades marsh
	are there now, you know, you talk about saving only 20 percent of	that results in adverse effect on aquatic flora and fauna. Spoil
	the islands that are there now, you know, a lot of those trees, they	mounds on both sides of the Miami Canal from 5-8 to 5-339 would
	take a long time to grow.	be removed and 22 spoil mounds (the highest priority/highest
		functioning Florida Fish and Wildlife Conservation Commission (FWC)
		enhanced spoil mounds) would be in order to promote sheetflow

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		across the backfilled Miami Canal, additional mounds would be created every mile from 5-8 to interstate 75 to prevent hydraulic channelization of flow and provide upland animal habitat. This would provide an additional 49 acres of upland habitat. This additional upland habitat this additional epriods of high water. These mounds also align with the historic ridge habitat and there is the possibility that the placement of the mounds would help reestablish the ridge and slough pattern in WCA 3A.
CITIZEN-6 (AB Jr.); Comment -2	And the buggy bridge, you know, we don't want to see that go anywhere. You know, the buggy bridge needs to stay and 500 feet in both directions. There's a big - big islands there. They're real high and they got some big trees on them too. And I would like to see a pavilion over there where the buggy bridge is. I don't know if that's in your plan or not.	The bridge (aka the Buggy Bridge) at 5339 is an existing structure that is anticipated to require structural maintenance activities or be decommissioned in advance of CEPPs 2020 implementation schedule and therefore is not included as a recreational component in the Central Everglades Planning Project. Appendix F - Recreation Site Eincludes a shelter and an earthen crossing at this site to ensure the continued connection of existing buggy trails across the Miami Canal.
Comment -3	Down here, I work, I'm a farmer, and right now, down here, we got a problem with the ground water. I's too high. You know, the farm I work on is flooded out right now. I's just getting worse.	For the CEPP PIR, the analyses for CEPP associated with Section 601(h)(4) and 601 (h)(5) of WRDA 2000 and the Programmatic Regulations for the CERP (33 CFR Part 385) for Project-Specific Assurances and Savings Clause were conducted for the recommended plan. Should the project be implemented in multiple PPAs, the USACE District Engineer will ensure that Project-Specific Assurances and Savings Clause requirements are met per PPA, per applicable as revisions are made to Water Control Plans and/or Project Operating Manuals associated with each PPA. Compliance with the requirements of the Savings Clause will be maintained throughout the entirety of the CEPP implementation period. This statement has been included in Section 6.7 (Plan Implementation) of the Final PIR/EIS. The WRDA 2000 Savings Clause requires that CERP does not reduce the level of service for flood protection as of 2000 and in accordance with applicable law. Consistent with the analysis provided in Annex B of the PIR, implementation of the CEPP project will not reduce the

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		levels of service for flood protection within the areas affected by the project, including LOSA, EAA, LECSA 2, and LECSA 3.
		The following text was added to CEPP PIR Section 6 TSP description
		for the 'yellowline' area to further highlight remaining uncertainties
		and need for more information before implementing a seepage
		barrier in CEPP; "There are remaining uncertainties about the
		effectiveness of the CEPP TSP seepage cutoff wall in maintaining
		desired stages in marshes of ENP while maintaining water supply,
		flood protection and water availability to Biscayne Bay. Therefore,
		additional analysis of the CEPP seepage cutoff wall will be conducted
		during the PED phase. See Section 6.10.1,2, the Engineering
		Appendix (Appendix A), the analyses required by WRDA 2000
		(Annex B), and the CEPP Adaptive Management Plan (Annex D Part
		1) for more detail about the remaining uncertainties and suggested
		analysis to be completed to determine the need for and extent of a
		CEPP seepage cutoff barrier wall."
		To address the commenter's concerns the following text was added
		to the introduction to the LEC section of the adaptive management
		plan:
		"There are remaining uncertainties about the effectiveness of the
		CEPP TSP seepage cutoff wall in maintaining desired stages in
		marshes of ENP while maintaining water supply, flood protection and
		water availability to Biscayne Bay. Therefore, additional analysis of
		the CEPP seepage cutoff wall will be conducted during the PED
		phase. See Section 6.10.1.2, the Engineering Appendix (Appendix
		A), the analyses required by WRDA 2000 (Annex B), and the CEPP
		Adaptive Management Plan (Annex D Part 1) for more detail about
		the remaining uncertainties and suggested analysis to be completed
		to determine the effectiveness of the CEPP seepage cutoff barrier
		wall."
CITIZEN-6 (AB	And what's the water quality going into 3A North right now. I know	At present, phosphorus concentrations in water entering WCA-3
Jr.);	that it's should be around 13 parts per million, and I think it's a	slightly exceed 13 ppb. Long-term, the CEPP plan in combination
Comment -4	little bit higher than that right now. I'm not a hundred percent	little bit higher than that right now. The not a hundred percent with the state's festivation strategies had are likely to essuit in a
	sure, but i in pretty sure. That's about all I have to say.	reduction of phosphorus concentrations within WCA-5 to levers

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		below 13 ppb.
CITIZEN-7 (JU);	Hi, I'm John Ullman. I'm the Everglades representative for the	Thank you for your comment.
Comment - 1	National Sierra Club based here in Miami. The Sierra Club has more than 800.000 members in the United States as well as 30.000 here	
	in the State of Florida. We use the Everglades. We follow the	
	Everglades restoration. It's a very important part of our - of our	
	program. We support CEPP and we - we support it because it	
	provides hope for a damaged system. It's a chance to restore the	
	flow by eliminating key barriers.	
CITIZEN-7 (JU);	The Miami Canal, which was built in, between 1909 and 1912. The	The effects of sea level rise were analyzed per EC 1165-2-212. This
Comment - 2	L-6/A and C, which were built in the 60's. These were extremely	analysis looked at the effect of sea level rise on the project area as
	damaging activities that did not create a better situation, but	well as on the restoration benefits anticipated to result from the
	described a very good situation. And the only way we can keep ourselves from deteriorating not only at the Everglades but our	Implementation of the Recommender Han. The Fillar CEPP Integrated DIR and FIS could be undated if necessary as further
	own quality of life as — as human beings, is to restore these	information on sea level rise projections were to become available.
	features. And it's becoming more and more imperative with the	
	as lovel rise of your are afraid of anything in this nian ladies and	
	sea tever tise. If you are alraid of allything in this plan, takes and	
	gentiemen, you should be more affaid of sea level rise, and one of	
	the benefits of this plan is if it helps to reduce the impacts of	
	sea level rise,	
CILIZEN-7 (JU);	There's one one issue that we have, you probably heard us speak	The alignment, design and dimensions of the levee will be further
Comment - 3	about this at other hearings, is the the the north/south feature	investigated as the project progresses in to Pre-construction
	you have which you called the L-67D. I was hoping you would not	Engineering and Design (PED).
	call it the L-67D because the L-67A and C has such a bad	
	environmental reputation. This is a - this was supposed to be a	The function and integrity of the C&SF flood protection system
	temporary weir that was easy to put in and easy to take out,	provided by the L-67 A and L-67 C levee system must be maintained
	because this is not the end of the line, this CEPP project. This is a	following CEPP implementation, and CEPP degradation of portions of
	stepping stone to further decompartmentalization, because we	the L-67 C and L-29 levees must be offset with additional
	have to actually restore all of the WCA3B and into Everglades	infrastructure and operational constraints that maintain the pre-
	National Park to restore Shark River Slough. So this is a temporary	project level of flood protection and account for any potential
	feature for us to get from place A to point B. But this, as it's	increased design risk. The details of additional infrastructure, and
	structured right now, is a permanent feature. It's it's really	how it would interface with operations and existing infrastructure,
	something that is not so easy to take back. And we we strongly	will be determined in the future as adaptive management, Pre-
	encourage you to go back to the original intention, which was a	Construction Engineering and Design (PED), and as other information
	training weir. All we're trying to do is temporarily get the water	becomes available for this area. Consideration of a new L-67 D levee
	south through the - the two and a half mile bridge. And then, in	(currently included as a component of the CEPP recommended plan),
	order to move restoration farther to the east, to move it farther to	including its footprint (width/heignt), costs, and permanency, will be

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COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	the east, we take down that levee, well, it is not a levee, it's a	cautiously considered and subject to coordination and applicable
	trained weir, and I really strongly urge you to consider that. It's a	policies and permitting.
	tremendous expense and unnecessary. And there's really nothing	
	to flood. It's the Everglades. You know, the water is not it's not	
	going to be an impact to to life or limb. We don't need to build	
	something very substantial.	
CITIZEN-7 (JU);	CEPP is very important and something that needs to be done and	Thank you for your comment.
Comment - 4	should have been done and it must get done and we urge you to	
	move forward. Thank you.	
CITIZEN-8 (NR)	My name is Neil Ruddy. I am vice president of the Dade Club. I'd	Thank you for your comment. Despite the additional 200,000 acre-ft
	like to say, I agree with everything that they said at the meeting that	of new water to the Everglades, the TSP caused EWMA closures
	we had at the IGFA. I guess my primary question was, I get that	twice, in 1994 and 1995. According to the 2-gauge average north of
	you've got to send water, okay, and by sending water south, my	Aligator Alley, the duration of the 1994 event when water depths
	main complaint was, what happens when you say they have too	were over 2 ft for more than 60 days, was 146 days for the TSP, 151
	much water, that we have too much, and then I was assured that	days for the FWO, and 159 days for the ECB. According to the 2-
	they can shut it down and that's it. Okay, well, that's fine. But now	gauge average north of Alligator Alley, the duration of the 1995
	the water is trapped in Area 3. Where is the guarantee that that	event when water depths were over 2 ft for more than 60 days, was
	will be let out? What I'm - I'm mainly worried by, because right	67 days for the FWO, 68 days for the ECB and 85 days for the TSP.
	now, like you're saying, if it's full of water, where is it going to be in	
	hunting season, and more importantly, I don't want to say that I'm	
	focused on that, but when the water's going to be high continually,	
	there isn't going to be a hunting season, okay, so maybe we could	
	still recreate while there I want my kids to see deer and stuff that	
	I did. But then it's going to be too hard on deer, so they're going to	
	end up and stop recreating, so we're not going to be able to go in	
	those areas, period. So where's the guarantee that they're going to	
	stop the water and that you can pump it back out, clear our area	
	out, if they don't want any more water sent. Thank you.	
CITIZEN-9	Thank you. Julie Hill-Gabriel here on behalf Audubon Florida, and as	Thank you for your comment.
(JHG)	always, I have to start by saying thank you at meetings like this for,	
Comment - 1	you know, really for everyone in the room that's come, but	
	especially for also putting so much effort into planning and speaking	
	down here. You know on behalf of Audubon, this is by far the most	
	exciting and to be celebrated projects and planning that we have	
	ever seen, anywhere, not just in the Everglades. And it really is	
	being looked at across the nation as a model that we can use and	
	replicate over and over again.	

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CITIZEN-9	Usually we focus on four main things that are considered reform or	Thank you for your comment regarding the Civil Works Program -
(JHC)	things like that, are great developments that have taken place in	Pilot Study Implementation. This study process continues to use
Comment - 2	this project. One is, of course, finally getting to the central part of	quality planning practices and is intended to increase public
	restoration. Although those other projects are absolutely critical,	participation, broaden public input and shorten the timeframe for
	but this project involves some of these hard questions that we	completion of a pre-authorization (planning) study.
	haven't been able to get to before this process. That's number one.	
	Number two, as we talk about at presentations, combining planning	
	so we don't have the chicken and the egg, where we don't know,	
	we don't know what we're doing down there, what we're doing up	
	here. Let's gather and do it at one time. Three being, of course,	
	building and more stake holder opportunity, so we all have been a	
	part of this process and we know, you know, that we've had a	
	prolonged wait. And of course, number four, is doing it faster. And	
	you know, I work every day to try to push Congress to do something	
	that will help accommodate a project like this in the timeframe that	
	we're stuck within, and that is mainly to make sure folks in this	
	room who put in their 15 and 20 hour days to get that timeframe	
	set up will actually get to see those benefits.	
CITIZEN-9	But if you want to just add one focus which is the adaptive	
(JHG)	management piece, we really do hope that as we continue this sort	Part of the intent of the CEPP adaptive management plan is to
Comment - 3	of process which is just the kind of thing that is needed, blessed by	inform decision makers during the implementation of CEPP, so that
	members of Congress who try to find a way to do things faster, that	they will learn from components that have been constructed to
	we use on the ground adaptive management and that part of that	optimize the components that are in line to be constructed.
	can be looking at how do we construct different elements of	Adopting this adaptive management style saved time during the
	projects together. If we can find some of those, as we're looking at	CEPP planning process and should continue to save time during
	the sequencing, so that, you know, when everyone hears 2029,	CEPP's implementation.
	asking why on earth did we bother doing this faster anyway, you	
	know, everything takes forever no matter what we do, and just	
	continue to look for those opportunities to speed up that process as	
	that develops further. Thank you.	
CITIZEN-10	Hi, good evening. I'm with the Miami Sierra club also, the executive	Thank you for the comment. The alignment, design and dimensions
(VR)	group, and Sierra club says Sierra Club supports the concept. It's	of the levee will be further investigated as the project progresses in
	very important to restore the water through the Central Everglades	to Pre-construction Engineering and Design (PED).
	and under the planned 2.6 mile bridge over Tamíami Trail. We do	
	however object to the height potential permanency of the	The function and integrity of the C&SF flood protection system
	north/south water training feature. This was supposed to be a	provided by the L-67 A and L-67 C levee system must be maintained
	short temporary weir and it has morphed into something far more	following CEPP implementation, and CEPP degradation of portions of

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	expansive and difficult to remove. We must not build more walls in the Everglades. Thank you.	the L67 C and L-29 levees must be offset with additional infrastructure and operational constraints that maintain the prepoject level of flood protection and account for any potential increased design risk. The details of additional infrastructure, and how it would interface with operations and existing infrastructure, will be determined in the future as adaptive management, Preconstruction Engineering and Design (PED), and as other information becomes available for this area. Consideration of a new L67 D levee (currently included as a component of the CEP recommended plain) including its footprint (width/height), costs, and permanency, will be cautiously considered and subject to to PDI coordination and applicable policies and permitting.
CITIZEN-11 (LR) Comment - 1	Thank you. I represent the Tropical Audubon Society, which is here in Miami. We have about 4000 members, and we work very closely with our - our State partner, Julie Hill, so I want to reiterate this comment that she just made and also wanted to also express our excitement for this project. I think that, you know, I just finished publishing the top ten things we can do here in Mami before our sea level rise and something that I hope with the release with the IPCC report will maybe be in the Miami Herald. I'm hoping for that. And the top number one thing is Everglades Restoration. And its been on that list for years, somebody said almost 30, 25 years, that we've been talking about what we have to do here to fix it, so it's very exciting to be here.	Thank you for your support of Everglades restoration.
CITIZEN-11	A couple concerns that I mentioned earlier is just making sure the	
(LR);	adaptive management includes, you know, some assurances for Bicraying Bay and for Demestro wetlands for the Miami Wetlands	Thank you for your comment. CEPP monitoring and adaptive
7 - Oominet - 2	passaytie boy and to rentablo wetalitus, for the mann wetalius, for making sure that we're not creating a new impact as we move forward. So I've already kind of asked those questions. I think I just want to talk to you further about how that will play out as you get more data and as you refine your adaptive management plan and your—your monitoring. So I want to stay in the loop on that.	inangement introduces baseque bay and the Perlibacto Wedanbas. The monitoring is described in Annex D of the CEPP Project Implementation Report (PIR). The monitoring described there is intended to work in conjunction with existing and potential future monitoring networks in order to maximize the availability of information about the well-being of these important areas.
CITIZEN-11	Just know that, and I also want to say moving fast is also a concern.	Thank you for your comment and support of CEPP.
(LR); Comment - 3	I really don't want to be 50 and standing here and saying the same thing. So I'm also working along with Julie to push the funding for this project, so that we can, you know, preserve some of the things	
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	for future generations, and I have to - I would be remiss not to mention the late John Ogden, who served on our board for the -for the last five years of his life, and this kind of, to me, is what his vision was, you know, early on in some of his early writings, and I feel like about a year before he passed away he said, if we don't do this in the next ten years, we're going to lose it all. And so I do want to justs necourage you to move fast and keep going. I know that there's lots of concerns and lots of headaches and I really appreciate all of the work that you guys are doing. Thank you.	
CITIZEN-12 (AB); Comment -1	I kind of resent the idea calling the 3A north, 3A south a water conservation area. It's the Everglades, And the Everglades is a fragile environment. And if you - you can look at Area 2. If you want to do some restoration, I think you should go to Area 2 and start over there and fix the mess you guys did a long time ago. You killed all the tree islands out there. The water depth and the water duration that are out there and the water quality is important and how - how the Everglades is going to survive or not survive. The habitat, the fur bearing animals, the wading birds, you don't see the wading birds out there like you used to. You put too much water out there you might as well buy them all a mask and a snorkel.	The conditions in the system today were brought about by the drainage and impoundments created as a result of construction of the Central and Southern Florida Flood Control project. The Miami Canal has caused over-drainage of the upper reaches of WCA 3A and the levees have resulted in ponding of water in the southern reaches of WCA 3A. The objectives for CEPP and CERP are to restore more natural water levels and fluctuations that are beneficial to the ecrosystem and is based upon the best peer reviewed scientific information available about the needs of the natural system. The plan and operations of the system will provide for restoration of seasonal hydroperiods and includes appropriate recession of water levels in the dry season for ridges and sloughs. The objectives of CEPP to enhance ecological values include to
		restore seasonal hydroperiods and distribution, to improve sheetflow patterns and surface water depths and durations, and to restore more natural water level responses to rainfall (for additional detail, reference Section 0.1 of the CEPP PIR). CEPP alternative configurations were developed to reduce the drainage effects from Miami Canal in the northern portions of WCA 3A and restore more sheetflow across the northwest portions of WCA 3A. The Miami Canal causes water levels in northern WCA 3A to recede well below the ground surface for long periods of time, which has resulted in muck fires and resultant lowering of the ground surface elevations in northern WCA 3A by up to 3-ft in some areas. Alt AR2 proposes to neverse the continued degradation of this area by backfilling a portion of the Miami canal north of 1-75 to remove its drainage

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H		effects, re-distributing inflows through removal of approximately 2.9
		miles of the south L-4 levee and increasing water flow into WCA 3A
		during the dry season. Water levels and durations within WCA 3A
		and 3B will vary across the landscape and from year-to-year if Alt4R2
		were implemented, consistent with the variability in rainfall,
		hydrologic conditions, and operations within the upstream basins
		(Lake Okeechobee, EAA, WCA 1, WCA 2). Generally, water levels in
		northern WCA-3A will stay above ground surface for longer and the
		depth and duration of the wet-season water levels will increase.
		The water level changes anticinated with implementation of Alt 482
		are conducive to restoring a portion of the wetland hydrology that
		was lost as a result of the drainage effects from the construction of
		the Miami Canal through the marsh in northern WCA-3A. Details
		regarding the expected water level changes can be found in Section
		5 and 6 and Appendix C.2.1 and C.2.2,
		In general, with implementation of Alt 4R2, water levels in
		Northwest and North Central WCA-3A are predicted by the period of
		record modeling results to remain above ground surface throughout
		the year to reduce continued soil oxidation and invasion of woody
		vegetation, significantly reduce the susceptibility of that area to risk
		of muck fire and beginning to restore the ridge and slough landscape
		that was evident in the western portion of this area in the 1940s.
		Water levels in the northeastern portion of WCA-3A are predicted by
		the POR modeling to remain conducive to maintaining the sawgrass
		plains in this area that were also evident in the 1940s Central WCA-
		3A will remain similar to today's condition, and water levels and
		durations in southern WCA 3A will be slightly reduced due to the
		increased outlet capacity (to WCA-3B and the expanded S-333)
		included in Alt 4R2.
		Section 5.1.6.5 states that CEPP implementation may negatively
		affect some mammals dependent upon upland habitat. Due to
		increased water flow and changes in water distribution it is
		anticipated that overdrained areas in WCA 2 and northern WCA 3A
		will be rehydrated, triggering a vegetation transition from upland to

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		wetland habitat. Although mammals occurring within the action
		area are adapted to the naturally fluctuating water levels in the
		Everglades, there is an increased potential for this vegetation
		transition to have a moderate adverse effect negatively affect
		mammals using upland habitat. Similar language about mammals
		that are dependent upon upland habitat is included in the third
		paragraph of Section 5.2.6.5.
CITIZEN-12	You're talking about putting another 210,000 acre feet of water in	Thank you for your comment. Changes to Everglades water
(AB);	the Everglades. We don't mind you moving water through the	distribution, timing, and volumes with CEPP will be implemented
Comment -2	Everglades, but then you stack it up and hold it. We've had a	gradually The gradual changes are expected to promote gradual
	situation where they micromanaged the Everglades National Park	adaptation of the ecosystem to the restored conditions. The changes
	over to Seaside Sparrow. You sacrificed 850,000 acres to the north	will help to conserve soil by building peat and preventing oxidization
	tobecause the Everglades National Park didn't want water. They	and muck fires, and to restore the diverse topography of higher and
	shut the structures down and you wiped out all the thousands of	lower ground through the Everglades that supports diverse species.
	animals out there as well as the habitat out there and to the north.	Doing so will support wildlife throughout the Everglades including
		improving conditions in Everglades National Park. These
		expectations, and the science that supports them, are explained in
		the Benefits section of the CEPP PIR and in the CEPP ecosystem
		services report.
CITIZEN-12	So I've got a big concern about the water quality. They may say, oh,	Thank you for your comment.
(AB);	we don't want the water because it's not clean enough, or we can't	
Comment -3	pump the water because we got to save the sparrow. So I mean,	Operating the South Florida water management system is complex
	these are, you know, these aren't things that we're worried about	as your comment indicates and progress towards restoration
	happening. These are things that have happened, and we've seen it	requires cooperation of multiple agencies and input from the public.
	happen through experience. We've been talking about restoration	The CERP and CEPP projects work to get input from all affected
	of the Everglades for the past 50 years. I can bring people here	parties during the planning and implementation phases.
	right now, some of them are still alive, and they've been involved in	
	going to these meetings, and they're saying the same thing over and	
	over again, and you just keep, you know, we're stuck on stupid or	
	something here. We don't seem to learn from our mistakes, you	
	know. Whatever amount of water that you're running in the north,	
	we ought to have some triggers in place. If you can't let the water	
	out of the south end, then you ought to have a trigger in place	
	saying you can't pump any more water in there. There ought to be	
	some kind of safety measures or something, somebody looking out	
	for the wildlife out there because it hasn't happened in the past.	
CITIZEN-12	We've got public access issues. You know, I come to a lot of these	

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(AB);	meetings, you guys know that. And now we come up with another	The CEPP Recreational Plan maintains and improves existing access
Comment4	idea on how to block us off the L-4 levee. Well, when we came, we	and provides additional access points for recreational and hunting
	had asked you to leave a mile and a half of the L-4 levee and you	opportunities. Please refer to Appendix F, Figures F2, F3 and F4 that
	said, yeah, that was fine. But now we got to divert the water from	identify existing, improved and new access points for recreational
	the 58 pump station into the L-4 canal, we're going to lose all of our	opportunities that include hunting and fishing.
	public access on the L-4. And I know you're not going to build a	
	bridge, because that's going to cost too much money. I talked to	
	Jerry about us putting some kind of levee where we could come	
	down the Miami River by a service road or something where we'll	
	have access to the west side of 3A north. You know, not everybody	
	has a vehicle to get out there. You know, a lot of people like to go	
	archery hunting or muzzle loading, a general kind of block hunting	
	and you just cut all of us guys out of that area. We can't go in on the	
	L-28. We only have three places that we can come in off the L-75	
	area. There's no area that we can come in off of anymore, so	
	basically we're down to the L-5 and the L-4. So I mean, I have some	
	real concerns here.	
CITIZEN-12	I think you know if we're talking about this project in 2029, you	For CEPP, the S-8 pump station and/or G-404 may require design
(AB);	might as well – I thínk you – When I was involved in this back when	modifications (or possible replacement). S-8 is currently used to
Comment -5	this all started back in '94, this phase of the project, they were going	discharge runoff water via the Miami Canal, as well as provide an
	to put the S8 pump station in the mothballs. Well, for some reason	outlet for STA 3/4 discharges into WCA 3A. CEPP will maintain the
	the State wanted to spend some money, so they restored the pump	existing design capacity for the S-8 complex through a combination
	station. Maybe by 2029, you can build a new pump station in place	of the following design considerations: pump station design
	of the G-404 and move the water that way instead of making of all	modifications, a new hydraulic connection from S-8 to the degraded
	this impact to the habitat. You know, without digging another canal	L-4 Levee (New S-8A), utilization of the existing G-404 pump station,
	out there, that's the last thing in the world we need.	and leaving the 1-2 mile segment of the Miami Canal as available
		getaway conveyance capacity during peak flow events. The
		proposed 5-8A culvert and associated canal connecting the Miami
		Canal to the L-4 Canal will be reassessed in further detail during PED.
CITIZEN-12	On the Miami River, we supported, you know, went along with	The Miami Canal causes water levels in northern WCA 3A to recede
(AB);	filling in part of the Miami River. You know, it looks like we're going	well below the ground surface for long periods of time, which has
Comment -6	to lose - loss of habitat out there. You're going to take out miles	resulted in extensive and documented losses of peat soils from
	and miles of spoil banks that the wildlife's adapted to, you know,	oxidation and muck fires and resultant lowering of the ground
	that's been there since 1912, is when all this started with the Miami	surface elevations in northern WCA 3A by up to 3-ft in some areas.
	River, when Woodrow Wilson started the Federal Reserve. That's	Alt 4R2 proposes to reverse the continued degradation of this area
	where they had all that funny money and they started doing all	to remove
	these crazy projects.	drainage effects, re-distributing inflows through removal of

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		approximately 2.9 miles of the south L-4 levee and increasing water flow into WCA 3A during the dry season. Water levels and durations within WCA 3A and 39 will avay across the landscape and from year-loveer if AltkR2 were implemented, consistent with the variability in rainfall, hydrologic conditions, and operations within the upstream basins (lake Okeechobee, FAA, WCA 1, WCA 2). Generally, water levels in northern WCA-3A will stay above ground surface for longer and the depth and duration of the wet-season water levels will increase. The water level changes anticipated with implementation of Alt 4R2 was lost as a result of the drainage effects from the construction of the Miami Canal through the marsh in northern WCA-3A. Details regarding the expected water level changes can be found in Section 5 and Annacodic C 3 and C 2 2
CITIZEN-12 (AB); Comment - 7	Okay, you're going to take out oak trees out there that you couldn't wrap your arms around. There's - figs out there, the three of us couldn't wrap our arms around. And you're going to go through there and you're going to wipe them out. You know, the wildlife out there have adapted to what we have. We need to use adaptive management to manage what we have, not what it was for free drainage or anything else. We need to have some common sense and try to save what we have the way we have it. Not to try to change it back to free drainage and put it all out and turn it into an Area 2, which to me, is wasteland. I worked in Everglades National Park, and I'll tell you right now that area out there is a wasteland, too. There's not the wildlife. It's not in there. The tree islands are not healthy. It's full of cattalis. It's a disaster. It's not the pristine place that everybody thinks it is. I've had a chance to work out there. I do logistic-logistics on environmental studies.	Thank you for your comment and your attention to these important issues. Changes to Everglades water distribution, timing, and youlumes with CEPP will be implemented gradual adaptation of the ecosystem to the restored conditions. The changes will help to conserve soil by building peat and preventing oxidization and muck fires, and to restore the diverse topography of higher and lower ground through the Everglades that supports diverse species. Doing so will support wildlife throughout the Everglades including improving conditions in Everglades National Park. These expectations, and the science that supports them, are explained in the Benefits section of the CEPP PIR and in the CEPP ecosystem services report.
CITIZEN-13 (MM); Comment -1	Martha Musgrove from the Florida Wildlife Federation. I just want to make a few statements here because we do expect to submit some detailed comments on the report, and I want to praise you. It's well written and edited, those parts that I've read so far. I'm now plowing through the appendix's and the annex's. I want to give some support for continuing to the Corps, as it continues to do	Thank you for your comment.

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	fast track projects. I felt that the fast track actually forces some decisions to be made that otherwise linger, because it's very, very difficult to come to consensus, and at some point people have to give up, you know there's, you know, or at least move to the center, tell it to Congress.	
CITIZEN-13 (MM); Comment -2	The openness and responsiveness during the workshops was exceptional and appreciated. I didn't think you'd fill this room at night, in all honesty. You're just getting the models out there and locating the camps. Yes, people have had heartburn throughout the whole process, but it's better to have some sense of what is being planned than no sense in having it corrected because we can all make changes during the process.	Thank you for your comment regarding the Civil Works Program - Pilot Study Implementation. This study process continues to use quality planning practices and is intended to increase public participation, broaden public input and shorten the timeframe for completion of a pre-authorization (planning) study.
CITIZEN-13 (MM); Comment -3	CEPP does treat the 3A and B, Florida's Everglades, as a - as a mosaic for habitats, supporting a variety of fish and wildlife. I don't see the water founders here, but sometimes they - they're really excited about the - the L-4. This does not make a plan. We will continue - as an organization, we've had a long history with the hunting community, the fishing community, and natural resources. We do support moving ahead with CEPP, and we will work with you to prove it during the detail design process. We hardly think it's over. We haven't even gotten it authorized, and it takes 20, 30 years to implement, so during that time, a lot of things will change, I suspect.	Thank you for your support of the Central Everglades Planning Project and your comment.
CITIZEN-13 (MM); Comment -4	We do personally and as an organization, we have some concerns about implementation. We recognize the importance of finishing Mod Waters. That has to be done. And clearing them to do that, we – we will support the Corps and the District in clearing out this contract eight problem, because you've absolutely got to connect the retention, the pond retention areas with the flood control features to the north. Nothing works for Taylor Slough if you don't. And Taylor Slough is your avenue for getting water to Florida Bay, where it's most needed to reduce salinity. We also will work vigorously to get that second bridge, because when all is said and done, the outflow capacity has to equal the inflow capacity of – the Water Conservation Area 3A has to be a flow- through system, and we have to show people that it will be.	The projects mentioned in the provided comment (MWD 1-Mile Bridge and Road Raising, C-111 South Dade, and Tamiami Trail Next Steps Bridge and Road Raising) have been noted as project dependencies in Table 6-10 of the Draft PIR/EIS that must be integrated into the sequencing of CEPP to avoid unintended adverse consequences. Thank you for your comment and support.
CITIZEN-13	We want to move water south, rather than to dump it into the	We want to move water south, rather than to dump it into the The Recommended Plan addresses the need to restore ecosystem

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Pertinent Correspondence Information

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(MM);	estuaries. The last hearing that we had was up in the Treasure	function in the Northern Estuaries by reducing the number and
Comment -5	Coast, and the Treasure Coast area is is not only devastated, but	severity of events where harmful amounts of freshwater from Lake
	people are very, very angry too, and legitimately so. And at each of	Okeechobee are discharged into the estuaries. The USACE
	these hearings, there has been a lot of memory in the room. This	acknowledges that additional actions are needed to achieve the
	one, the early ones, the mid ones, I'm I'm sorry I didn't get over	restoration envisioned in CERP and to help reduce turbidity,
	to the West Coast. I thought that was outside of my my territory.	sedimentation, and moderate unnatural changes in salinity that are
	Although as of my trip today, I think it's easier maybe to get from	extremely detrimental to estuarine communities. Thank you for
	West Palm to the West Coast than it is to get to Miami. But CEPP is	your comment and your support of CEPP.
	a component of CERP and we all agreed that CERP was the	
	framework from which to work, to move water south and to restore	
	those areas they can, and at the same time, CERP was a three	
	legged stool. You get environmental benefits. But you also have	
	flood protection and water supply guaranteed, and we are	
	cognizant of that. We accept that, and we'll try to work with all the	
	groups to make sure that occurs. Thank you.	
CITIZEN-14 (JH)	I'll be brief this time. And Laura, rest assured, you're going to keep	The analyses conducted for CEPP did include evaluation of the
Comment - 1	your job for the next 60 years, plus the world's coming to an end,	effects on flood protection and water supply which are included in
	and we need your effort. Martha, I appreciate some of your	Annex B.
	remarks and I reiterate those. As far as connecting the south, that	
	flood control and water supply for the part of this 35 minute	
	consideration and environmental considerations, some people have	
	forgotten that, I'm afraid.	
CITIZEN-14 (JH)	Anyway, again, thank you for coming, and just to be redundant, I	The Corps is actively pursuing operational testing (relaxation of G-
Comment - 2	want to again mention Mod Waters. I want to say that right now,	3273 gage operational constraint and S-356 test) to utilize the
	the farming season can't even start in some areas here. And I wish	constructed Modified Delivery Project features. Planning for the G-
	for once, I've asked you to come down and we're going to show you	3273/5-356 field test has started but is not complete and necessary
	what I'm talking about when you come down. You're the first	approvals (including FDEP) have not been attained. Information
	person to say you would, that I think might actually come down.	from the test will be used to develop the Final Water Control Plan for
		the MWU project which Will allow for re-distribution of existing
		water flow from Westerff Shark River Stough to Northeasterff Shark
		River Slough. The Corps anticipates an operational plan and
		Completion of MWD prior to CEPT implementation.
CITIZEN-14 (JH)	It seems like, you know, it's not a miracle you're here, and NEPA	We have followed the NEPA process. We conducted 5 public
Comment - 3	process requires you to have these public meetings, and how you	meetings throughout the project area to present the draft report.
	forgot Homestead I'll never know, but you did. It's a legal	
	requirement, and I think we need to start looking at the legality of	

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	this, NEPA, because I really think that I'm not sure the Corps knows how to do NEPA anymore. They know how to do a FONSI, I'll tell you that. They show up quick, and there's no problem with it.	
CTTIZEN-14 (JH) Comment - 4	But 75 percent of your tree islands have been destroyed over the last 50 years, no doubt about it. The reason you're not sending water south of the Everglades now is the Everglades is opposed to you sending water through some of the - taking the vegetation away from south of the Trail. Remember that. Because it's a wilderness, and they don't want to remove the obstacles to moving water south. We seem like a contradiction, since they want it. But anyway, appreciate you coming. I will send comments up and thanks to everybody. I know you're underappreciated often, but I do appreciate what you do, and you do what Congress asks you to do. You just don't go out and do things, you know, like you do it at the request of the government, which we all are a part of. Thank you.	Thank you for your comment. Please see the response to CITIZEN-12; Comment -2.
CITIZEN-15 (CR)	Thank you for taking the time to make this presentation to us tonight. I represent the my name is Charles Rather. I represent the whann Rather Testamentary Trust, Nathan Rather. I represent Foundation, myself and my sister, Amy Rather. I've been coming to the meetings like this since I was ten years old, and I'll be 50 next month, so that's been a long time. You mentioned that the private property was the sade a question, does not include a private property owners in the WCA 3A and 3B, with approximately Jox000 acres. We own portions of the L67 and the L67 C, likely portions of the proposed locations of the new Shanty Levee and L 33 levee and possibly the 5-356 pumping station site. Your plan will involve moving flit and moving nocks, some of which we own, some of which other private property owners own, building structures on our property likely cutting off access and moving access or any of the SFWMDIs under a court order to build my family access over L67 A and L67, which has not been built in the last 20 years, despite the court order. The District's flowage easements likely trespass on our property by pumping polluted water, which could	Thank you for your comment. A comprehensive review and investigation of all deeds has been completed and it has been determined that the State has all necessary rights for conveyance of water over these properties. The properties have reserved mineral rights and rights of access solely for the purpose of these mineral rights.

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Appendix C.3

COMMENTER	AGENCY/PUBLIC COMMENT	CORPS RESPONSE
	potentially result in the future of the termination of the flowage easements, and cleanup of the water coming in is not likely to be addressed until 2029, like your presentation. So I think it's prudent to include an examination at least of private property rights and potential overuse of the flowage easements as a component in your plan, and we welcome an opportunity to discuss this with you further and even offer our lands to create a storage basin to widen 3B and 3A, at our expense, if that had interest as part of this component. Given the timing, the next time I will bring my kids who are 11, 13, and 15 and 15 and at the age that I started coming to these meetings, to future meetings, because they'll probably be addressing these issued when they're 50 years old, and it's time for them to learn about it. Thank you.	
CMIZEN-16 (AB	Something I forgot about. These pictures here are what stacking water does. This is 50 years before. This is part of the problem that you guys have caused. This is what they look like not. That same—all the trees are gone, and it's nothing but sawgrass. We've already lost big trees. Another question I had, where when you when you measure you 15 inches that you're proposing for the 3A north, where are you going to take your measurements from? From the south part or the middle? We have this problem that just came upon us this past couple months, we didn't even get a hurricane or nothing. This is only rainwater that flooded us out up there in 3A north. I mean, what's going to happen when you guys get a couple storms that roll through here. To be honest, I'm kind of scared of what what the outcome of this program is going to be. I mean, in the past it's been, you guys don't have a good history, you know. I mean, this is a problem and problem again, and I just wanted to say thank you for coming to Homestead, too. I I really appreciate that.	The CEPP project redirects an average annual volume of 210,000 acre feet of water discharged from Lake Okeenbobee to the Morthern Estuaries through the central Everglades system, with approximately Staraires through the central Everglades system, with approximately Spercent of this volume increase occurring during the dry season (generally November through May) when FEB storage and STA water quality treatment capacity is typicially available. The magnitude of change between the FWO project and with CEPP project stages for WCA 3A-MW for approximately 7-10 inches), with the increased antecedent stages at the end of the dry season resulting in a carry-over stage increase during the wet season (generally lune through October). For the 1965-2005 simulated period of record, daily stage increase sexeed 1.25 feet (15 inches) approximately 8.7 percent of the period of record, with a maximum daily stage inglifference of 2.63 feet (August 1989). A summary of the anticipated hydrologic effects of the CEPP action alternatives is provided in Table 5.1-2 for CEPP Alternative 4R.2. The summary of the anticipated based on the Regional Simulation Model (RSM)-BN and RSM-GL CEPP modeliing representations of these basicines and alternatives. The modeliing representations of these basicines and alternatives. The annualing in series and a discrementation.

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Pertinent Correspondence Information

COMMENTER	COMMENTER AGENCY/PUBLIC COMMENT	CORPS RESPONSE
		(improvements and/or adverse hydrologic change) within each
		specified geographic region is principally based on the results of the
		ecological evaluation, which are described in Section 4.2.2 and
		Section 4.6.2. The anticipated hydrologic effects are described for
		the following monitoring gauge locations throughout the WCAs,
		which are representative of the spatial variability of CEPP hydrologic
		changes: 2A-17 (WCA 2A); 2B-Y (WCA 2B); 3A-NW (Northwest WCA
		3A); 3A-NE (Northeast WCA 3A); 3A-3 (East-Central WCA 3A); 3A-4
		(Central WCA 3A); 3A-28 (Southern WCA 3A); and Site 71 (WCA 3B).
		Complete supporting documentation for the summary of anticipated
		hydrologic effects, including stage duration curves for the indicated
		monitoring gauge locations, is provided in CEPP PIR Appendices C.1
		(ECB versus FWO); C.2.1 (Alternatives 1 through 4 versus FWO); and
		C.2.2 (Alternative 4R and Alternative 4R2 versus FWO). For localized
		hydrologic effects at other non-specified WCA locations (including
		stakeholder requested hunting camp locations) or daily stage
		hydrograph information, this information is available for Alternative
		4R and Alternative 4R2 as part of the complete set of RSM-BN and
		RSM-GL hydrologic model performance measure output that is
		posted on the Everglades Plan public web site for the CERP, as
		indicated in the CEPP PIR main report:
		http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx

C.3.3.4 Draft PIR/EIS Letters

Congress of the United States

Washington, DC 20510

September 13, 2013

The Honorable Jo Ellen Darcy Assistant Secretary of the Army (Civil Works) The Pentagon 108 Army Pentagon Washington, DC 20310-0108

RECEIVED

SEP 30 2013

Office of the ASA(CW)
Washington, DC

Dear Assistant Secretary Darcy:

Thank you for your continued dedication to the restoration of America's Everglades. We are writing to express our support for the approval of the Central Everglades Planning Project (CEPP). The U.S. Senate passed the Water Resources Development Act on May 15, 2013, and the U.S. House of Representatives is working on companion legislation. The draft Project Implementation Report/ Environmental Impact Statement was released for public review with comments due by October 14, 2013.

We are hopeful that the U.S. Army Corps of Engineers will complete the final planning stages as soon as possible to provide an opportunity to advance this and the interdependent projects in a WRDA bill. There are already four Everglades projects with completed Chief's Reports. Ensuring that these projects are all authorized in the upcoming WRDA bill will ensure restoration can progress without further delay.

CEPP will increase flow to the south by 217,000 acre feet (70 billion gallons) of water, thus reducing harmful discharges to the St. Lucie and Caloosahatchee estuaries, while still maintaining needed dry season flows. By delivering more water to the Southern Everglades, critical habitat will be improved, leading to a better functioning ecosystem that will benefit Florida's economy.

As one of the Corps of Engineers' pilot projects for streamlined planning, the project formulation timeline was reduced from five to seven years to two years. That is something to be celebrated. Completing the final stages of project planning, however, is essential to reap the benefits of this reform.

We look forward to continuing to work with you to finalize CEPP and restoring America's Everglades.

Sincerely,

Senator Bill Nelson

Representative Mapio Diaz-Balart

Alcel Hastury	Patrice E. May
Bill Post	David Wellest Full Representative Daniel Webster
Debhie Wasse Almth Representative Debbie Wasserman Schultz	Representative Joe Garcia
Representative Bril Young	Ketty Gstv Representative Kathy Castor
Representative Dennis Ross	Sprus (Jonney) Spresentative Tom Rooney
Hepresentative Ted Deutch	Representative Lois Frankel



United States Department of the Interior

OFFICE OF THE SECRETARY Washington, D.C. 20240

November 1, 2013

Colonel Alan M. Dodd Commander United States Army Corps of Engineers Jacksonville District P.O. Box 4970 Jacksonville, Florida 32232-0019

Dear COL Dodd:

Thank you for the opportunity to review and provide comments on the CENTRAL EVERGLADES PLANNING PROJECT DRAFT INTEGRATED PROJECT IMPLEMENTATION REPORT AND ENVIRONMENTAL IMPACT STATEMENT (Draft PIR/EIS), dated August 2013. The Department of the Interior (Department) supports the Recommended Plan as contained in the Draft PIR/EIS. The Central Everglades Planning Project (CEPP) will provide meaningful steps toward restoration of the central Everglades, Everglades National Park (ENP) and coastal estuaries. The Department supports continuing forward with the CEPP approval process on an expedited schedule. The Department lauds the U.S. Army Corps of Engineers (Corps) for including the Central Everglades Planning Project (CEPP) as one of seven national pilot projects designed to improve the Federal planning process by significantly reducing the timeframe and process necessary to develop a Corps feasibility study. Successful restoration of the Everglades is contingent on streamlining both this timeframe and process. The Department, like the Florida Department of Environmental Protection (FDEP), would like to see the streamlining of both the timeframe and process for Corps feasibility studies utilized in this pilot program become a national practice for Corps feasibility studies.

The Department appreciates the progress that has been achieved in authorizing and implementing several Comprehensive Everglades Restoration Plan (CERP) projects located primarily on the periphery of the Everglades. The CEPP is the first major CERP project aimed at addressing ecological conditions and functions within the central portion of the Everglades, from ridge, slough, and tree island communities down through southern estuaries, all of which continue to decline due to lack of sufficient quantities of freshwater flow, obstructions to sheetflow, and altered flow timing and distribution problems. The purpose of the CEPP, which is comprised of multiple CERP components, is to identify and recommend an initial increment of restoration benefits by reducing damaging freshwater discharges from Lake Okeechobee to the St. Lucie and Caloosahatchee estuaries while restoring flows southward through the central Everglades to Florida Bay. This work is essential to restore or improve the central portion of the Everglades ecosystem (with component wetlands, uplands, and estuaries), including its water quality, habitats, and wildlife, while sustaining water supply, flood control, and cultural resources and values.

The Recommended Plan

The recommended plan, Alternative 4R2, when combined with ongoing non-CERP and planned CERP projects, addresses the primary objectives of Everglades restoration, which include expanded water storage, water quality treatment, improved conveyance, and seepage management. The CEPP recommended plan is comprised primarily of refined components of original CERP features including: the Everglades Agricultural Area Storage Reservoirs (CERP Component G), Water Conservation Area (WCA) 3 Decompartmentalization and Sheetflow Enhancement (CERP Components AA and QQ), S-356 Pump Station Modifications (CERP Component FF), L-31 Levee Seepage Management (CERP Component V), System-wide Operational Changes - Everglades Rain-Driven Operations (CERP Component H), and Flow to Northwest and Central WCA 3A (CERP Component II). The well-balanced Alternative 4R2 recommended plan was made possible by the innovative development and application of many cutting edge assessment and modeling tools, and the adoption of a highly inclusive planning process combining inter-agency project teams with regular stakeholder workshops. The Department commends the Corps and South Florida Water Management District (SFWMD) for these efforts.

Regional Environmental Benefits

• Benefits to the Upstream Everglades Watershed

The recommended plan provides significant environmental benefits across much of the South Florida Ecosystem, including to numerous land, water and wildlife resources for which the Department has management, stewardship and/or regulatory responsibilities. Alternative 4R2 will provide benefits in the upstream Everglades watershed by reducing the number and severity of harmful, high-volume discharges from Lake Okeechobee to the northern estuaries, and re-directing these flows back into the historical southern flow path. This will improve the overall salinity and nutrient conditions in the St. Lucie and Caloosahatchee estuaries. In addition to redistributing the existing treated water that enters WCA 3A in a more natural sheetflow pattern, the CEPP recommended plan will provide an average of approximately 210,000 acre-feet per year of additional clean freshwater flowing into and through the central Everglades. The Draft PIR/EIS states that this increase in freshwater flow to the Everglades represents approximately two-thirds of the additional flow estimated to be provided by the CERP. A key premise of Everglades restoration has always been that the best available scientific information will guide planning and decisionmaking. It is important to note that after the authorization of CERP, a scientific consensus developed (in part via scientific workshops convened by the Science Coordination Group and the CEPP interagency science team) that increased flows of freshwater, over and above the CERP estimate, are needed to reestablish more natural marsh water depths and flooding durations, as well as salinity patterns in the southern estuaries. The CEPP recommended plan represents an important first increment toward our longer-term efforts to restore the historic flow connection between Lake Okeechobee and the downstream Everglades.

Benefits to the Central and Southern Marsh Habitats

The Draft PIR/EIS recognizes that large regions of the central and southern Everglades have been degraded in response to drainage, altered flow patterns, and the loss of sheetflow. The combination of CEPP recommended incremental levee removal, canal back-filling, and additional water flowing into

northern WCA 3A, WCA 3B, and ENP will help to reverse the overly-dry conditions that have contributed to peat oxidation, increased fire intensities, and invasions by woody vegetation. The recommended plan also includes significant infrastructure and operational improvements to ensure that water flows through the Everglades, thereby reducing the likelihood and severity of harm caused by prolonged ponding, such as in southern WCA 3A. By slowing changing water flow patterns and increasing water volumes we can begin to restore the pre-drainage vegetative communities and habitat that are critical to supporting native populations of fish and wildlife. This will also afford incremental restoration of the natural processes critical for the development of peat soils and tree islands, which are essential features of the ridge, slough, and tree island landscape of the Everglades.

• Benefits to the Southern Estuaries

The embayments and nearshore areas of Florida Bay currently experience wide seasonal fluctuations in salinities and frequent peaks of damaging hyper-salinity. With increased freshwater flows through ENP and into the southern estuaries of Florida Bay we expect modest improvements in nearshore salinities in Central Florida Bay. The CEPP recommended plan shows a significant reduction in salinity in these areas, which should result in greater abundance and diversity of seagrass habitat and will benefit animal populations (including important recreational fishery species) that depend on this habitat, and are harmed by high salinity. Within the nearshore areas of Biscayne Bay, recent operational changes have been implemented that redirect additional available freshwater into the southern Miami-Dade coastal canal system. These small flow changes appear to temper high salinity events and lengthen the beneficial salinity window as the region transitions into the dry season. These operational flow improvements should be sustained and, where possible, expanded through the implementation of the CEPP and the Biscayne Bay Coastal Wetlands project. In addition, the Department recommends that the CEPP Adaptive Management Plan include an acknowledgement of the importance of maintaining beneficial freshwater flows to Biscayne Bay.

Incremental Progress, Adaptive Management and Ecological Monitoring

The Department notes that the sequential improvements from the combination of ongoing pre-CERP projects (such as the Modified Water Deliveries and C-111 South Dade projects) and the CEPP will incrementally improve water flows and marsh water depths in the Everglades and downstream estuaries over time. This incremental approach will give the ecosystem time to adjust to these changes. The CEPP recommended environmental monitoring program (as envisioned in the CEPP Adaptive Management and Ecological Monitoring Plans (Annex D)) is a critically important to tracking the health of key ecosystem features. The Department recommends that the Corps also implement a robust endangered species monitoring plan and assess the results in coordination with the U.S. Fish and Wildlife Service and other wildlife agencies to allow timely modifications to project operations for the protection of those species. Given the uncertainty and risk associated with mercury in the Everglades, the Department recommends additional monitoring and assessment at major project features and in associated downstream systems, beyond Annex D's sole specification for monitoring the A-2 Flow Equalization Basin (FEB).

The Department is committed to working with its bureaus and all partner agencies to ensure that wise and efficient resource investments are made to provide incremental progress towards meeting the goals of CERP, and restoring the central Everglades and downstream estuaries.

Water Quality

The suite of projects proposed in the CEPP Draft PIR are dependent on the existing system of stormwater treatment areas (STAs) in the Everglades Agricultural Area, as well as the proposed A-1 FEB in the central flow path of the State's Everglades Water Quality Restoration Strategies Plan (Restoration Strategies). The Department commends the State for their commitment to complete the Restoration Strategies plan and to commit the funding necessary to implement this \$880 million plan. Once the Restoration Strategies and CEPP features are implemented, they should provide both hydrologic and water quality benefits to significant portions of the Everglades Protection Area (EPA), and northern and southern estuaries. The recommended CEPP features will improve the function and capacity of the STAs by increasing the acreage of FEBs, distributing flows to WCA 3A with sheet-flow over its northwestern marshes, which have been damaged by decades of drainage, and reducing the short-circuiting of southward flows by the Miami Canal.

The CEPP Draft PIR/EIS acknowledges that there may be some concerns that the redistribution of additional water in the Everglades could cause compliance problems related to the Consent Decree in the United States of America vs. South Florida Water Management District, et al (Consent Decree). These would likely be temporally and spatially limited impacts as a result of construction and stabilization activities. The combination of Restoration Strategies and the CEPP proposed projects should result in long-term water quality improvements throughout the affected areas of the EPA, including lowering the flow-weighted mean total phosphorous (TP) concentration entering the ENP. The Department lauds the efforts of the State of Florida and the Federal government in negotiating an agreed-upon framework to address water quality issues that may occur as a result of the implementation of CEPP. The Department concurs with the FDEP that the Draft PIR/EIS, as currently written, provides the appropriate framework to address water quality issues that may occur as a result of the implementation of CEPP.

Component Sequencing

The Department agrees with the State of Florida that although the implementation schedule requires refinement and optimization, this need not and should not delay completion of the PIR/EIS and submittal to the Congress for authorization. The implementation schedule should be flexible to allow changes in the sequencing of CERP projects (including the CEPP components) and non-CERP projects and activities as appropriate. Flexibility is essential to successful CEPP implementation given the uncertainties associated with the lengthy implementation period and the inevitable improvement in scientific knowledge about the functioning of the greater Everglades and estuaries that will occur as planned CERP and non-CERP projects and activities are completed. The Department recommends that the Corps explicitly acknowledge, in the PIR/EIS, the importance of such flexibility.

The well documented history of high water problems in southern WCA 3A is a good example of how modest refinements in CEPP project sequencing *could* be used to address adverse ecological conditions more quickly than the CEPP component sequencing currently proposes. As the CERP/CEPP planning

process moves forward, the Department will recommend at the appropriate time that the Corps adjust the timing of conveyance and seepage management features around Tamiami Trail to move toward earlier implementation of WCA 3A outflow capacity improvements to convey existing water southward during times of high rainfall. The State's recent commitment to jointly fund the 2.6-mile Tamiami Trail Bridge (the first increment of the Tamiami Trail Next Steps project) creates a unique opportunity to pull several, relatively low cost CEPP southern conveyance and seepage management features (S-333N, the S-355W/ L-29 divide structure, and the removal of Old Tamiami Trail) forward and make faster progress on improving the conditions in both WCA 3A and Northeast Shark River Slough. The current CEPP implementation schedule assumes that these features will not be implemented for approximately 15-20 years, while our Tamiami Trail Next Steps first increment efforts would presumably have the western portion of the Tamiami Trail flow-ready 5-10 years earlier. We acknowledge that moving these CEPP conveyance and seepage management features earlier would require completion of upstream water quality improvements (specifically the A-1 FEB). Fortunately, the A-1 FEB is currently scheduled to be on-line by approximately 2019, which should either coincide with or precede the completion of Tamiami Trail Next Steps first increment. We also believe that we would gain significant additional public support for, and alleviate stakeholder concerns about, the upstream WCA 3A hydropattern restoration improvements by focusing on addressing the current WCA 3A high water problems and generally on increasing WCA 3A outflow capacity prior to increasing inflow capacity.

Another example of beneficial sequencing flexibility is the implementation of the L-31N seepage barrier in the CEPP, which is currently included in phase 7 (contract 10), or near the end of the CEPP implementation. The CEPP recommended plan conservatively included a seepage barrier of the length and depth necessary for CEPP project seepage management requirements, in the event the barrier must be constructed as part of CEPP. The recently completed 2-mile L-31N seepage barrier project constructed by the Miami-Dade Limestone Products Association (Association), as mitigation for seepage increases caused by rock mining, is currently being analyzed. If this segment of the seepage barrier shows positive results, then it is anticipated that the Association will construct, for additional mitigation credit, the remaining 3 to 5 miles of seepage wall to extend this seepage barrier south, as required by the *Final Supplemental Environmental Impact Statement on Rock Mining in the Lake Belt Region of Miami-Dade County, Florida*, dated May 2009. This non-CERP approach could pull these features forward to correspond with the general completion of the Tamiami Trail Next Steps first increment, or approximately 15-20 years earlier than is currently anticipated in CEPP. This possibility should be examined in future revisions to the sequencing schedule.

Establishing Clear Restoration Goals for Biscayne National Park and Biscayne Bay

It is important for CEPP to maintain the existing beneficial freshwater flows to Biscayne National Park (BISC) and the broader Biscayne Bay. Modeling for CEPP indicates that the recommended plan produces a small reduction in wet season canal discharges to the Bay, which can be beneficial, particularly if this freshwater can be redirected into the Biscayne Bay coastal wetlands. We commend the Corps and SFWMD for sustaining the more critical dry season flows, and focusing on smoothing out the seasonal change in flows. The Department recommends that further improvements in freshwater flows to BISC and Biscayne Bay be included in the next increment of CEPP, as most of the Bay is designated as an Outstanding Florida Water (OFW). These important coastal ecosystems depend on freshwater inflows

from the Lower East Coast canal system to sustain current habitats and salinity regimes. Additional freshwater will be needed to meet our established restoration targets and to achieve the full benefits of the CERP Biscayne Bay Coastal Wetlands project features. Restoration goals for future CEPP increments and system-wide operational modifications that increase the historic flow connection between Lake Okeechobee and the Everglades, should include extending the transition from the wet season to the dry season and increasing freshwater flows to Biscayne Bay. As an example, the supplemental deliveries to the south Miami-Dade canal system in water year 2013 were a critical component of providing more freshwater to the Bay and BISC, and they highlight the benefits that supplemental dry season flows can have in the Bay.

Modified Water Deliveries to Everglades National Park

The Modified Water Deliveries Project (MWD) is an essential part of the restoration of Everglades National Park, and the completion of MWD is one of the Department's top priorities. The physical features of the MWD project are either completed or under construction, and in any case will be completed by the spring of 2014. However, the Corps has not yet established a timeline for the development of the Water Control Plan (WCP) that is necessary to operate the physical features of MWD. While the completion of MWD is not a precondition for CEPP authorization, as CEPP moves toward authorization this spring, the Department urges the Corps to work with the Department, FDEP and the SFWMD to initiate the development of a WCP so that MWD features are operational as soon as possible and long before the *construction* of WCA 3 decompartmentalization and sheetflow enhancement features of CEPP.

The Department and its bureaus were extensively involved in the planning and development of the CEPP recommended plan and Draft PIR/EIS, and we look forward to continuing to work with the Corps and the SFWMD as we move toward authorization and implementation of CEPP and future phases of CERP.

Sincerely,

Shannon A. Estenoz

Director, Office of Everglades Restoration Initiatives

United States Department of the Interior



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

November 1, 2013

Eric Bush
Chief, Planning Division
Jacksonville District, U.S. Army Corps of Engineers
P.O. Box 4970
Jacksonville, FL 32232-0019

SUBJECT: Draft Environmental Impact Statement for Central Everglades Planning Project - CEO# 20130250

Dear Mr. Bush,

The U.S. Environmental Protection Agency (EPA) has reviewed the referenced Draft Environmental Impact Statement (DEIS) in accordance with its responsibilities under Section 309 of the Clean Air Act and Section 102(2)(C) of the National Environmental Policy Act (NEPA). The Jacksonville District of the U.S. Army Corps of Engineers (USACE) and the South Florida Water Management District (SFWMD) propose implementation of the Central Everglades Planning Project (CEPP). The purpose of the Central Everglades Planning Project (CEPP) is to assess federal and non-federal interest in implementing components of the Comprehensive Everglades Restoration Plan (CERP), which was authorized in the 2000 Water Resources Development Act (WRDA) as a framework for restoring the south Florida ecosystem while providing for other water related needs of the region. Several components of CERP have been implemented (Indian River Lagoon-South, Picayune Strand, and Site 1 Impoundment and Melaleuca and Other Exotic Plants Biological Controls). The DEIS states that despite this progress, ecological conditions and functions within the central portion of the Everglades ridge and slough community continue to decline due to a lack of sufficient quantities of freshwater flow into the central Everglades and timing and distribution problems. The purpose of CEPP is to restore or improve the Everglades ecosystem (including wetlands, uplands, and associated estuaries), water quality, water supply, and recreation while protecting cultural and archeological resources and values. USACE proposes to accomplish this by redirecting approximately 210,000 acre-feet of additional water annually from Lake Okeechobee to the historical southerly flow.

The plan formulation strategy for CEPP consisted of multiple formulation phases that followed the natural southerly flow of water from Lake Okeechobee through the Everglades ecosystem to Florida Bay. The strategy involves the formulation of interdependent management measures and components that serve to restore the central portions of the Everglades including Water Conservation Area (WCA) 3 and the Everglades National Park (ENP), while improving the northern and southern estuary ecosystems and increasing water supply for municipal and agricultural users. The plan formulation process used data and findings developed in previous

plan formulation efforts including CERP planning and restoration initiatives, such as the Everglades Agricultural Area (EAA) Reservoir project, WCA 3 Decompartmentalization and Sheetflow Enhancement Project (Decomp), and the ENP Seepage Management Project. CEPP used a sequential analytical screening process that increasingly became more comprehensive and detailed as plan formulation progressed.

During the plan formulation, USACE identified 4 alternatives (Alternatives 1-4). All build alternatives (Alternatives 1, 2, 3 and 4) proposed re-directing flow through a series of flow equalization basins (FEBs) that will provide storage capacity and attenuation of high flows. Water quality attenuation would be achieved through delivery to existing stormwater treatment areas (STAs). Each build alternative has a combination of re-routing water from water conservation areas (WCAs), removing portions of levees, constructing structures to improve flows through Tamiami Trail, constructing seepage barriers, constructing pump stations and spreader canals. Each build alternative uses various combinations of these components to accomplish the goal of improving historic southerly flows. Alternative 1 maximizes the use of existing infrastructure while providing moderate ecosystem benefits. Alternative 2 would increase the passive inflow and outflow structures of WCA 3B over Alternative 1. Alternative 3 would increase the passive inflow structure capacity over Alternative 2 and incorporate pump stations to move water out of WCA 3B. Alternative 4 builds off Alternative 2's infrastructure with the addition of the Blue-Shanty Flow levee and degrading of the L-29 levee within the flowway in lieu of the additional outflow structure on L-29.

USACE has identified Alternative 4 as the tentatively selected plan (TSP) and further refined Alternative 4 and identified it as Alternative 4R2. The DEIS documents that Alternative 4R2 provides the greatest overall benefits with the least cost per habitat unit, provides the greatest ecological connectivity and longest uninterrupted flow-way by removal of the L-29 levee and provides the greatest benefits to ENP. Major components of Alternative 4R2 include: construction of A-2 FEB and integration with A-1 FEB, refining operations to Lake Okeechobee, removal of portions of L-4 levee, L-29, L-28, L-67, L-67C, removal of approximately 6 miles of Tamiami Trail, backfilling of Miami Canal, construction of 8.5 mile levee in WCA 3B and connecting L67A to L-29.

Overall, EPA is supportive of the selection of Alternative 4R2 as the TSP. EPA appreciates the USACE's collaborative, multi-agency effort in formulating the TSP. EPA has some concerns with the current project's scheduling of the implementation of A-2 FEB, statements made concerning water quality, the format of the DEIS and the need for additional environmental justice analysis. These concerns are outlined in the attachment.

The A-2 FEB will be constructed in Phase 7 (the last phase) and year 19 of overall project construction. EPA strongly recommends that USACE consider moving the construction of A-2 FEB forward in the schedule because most of the hydrological benefits of CEPP (averaging 210,000 acre-ft/year) will be realized upon construction of A-2 FEB. The A-2 FEB will provide increased water storage (averaging 210,000 acre ft/year) and will have more far reaching benefits to the estuaries, and to the Everglades. It is EPA's view that expediting the construction of this important component of the overall project would be in the best interest of the environment and the public. In regards to water quality, some of the discussions of water

quality expectations, especially regarding Total Phosphorus (TP), are inconsistent with EPA's understandings. EPA recommends USACE address these inconsistencies (as discussed in our attached detailed comments). Additionally, given the potential changes in phosphorus loads and flows into the Everglades, the EPA is encouraged that the USACE and the SFWMD will closely monitor these loads and flows. EPA is committed to providing technical assistance to USACE to address these issues when developing the FEIS.

We rate this document EC-1 (Environmental Concerns with adequate information) and request that our comments be addressed in the FEIS. Enclosed is a summary of definitions for EPA ratings. We appreciate the opportunity to review the proposed action and will work with the USACE to help to resolve our issues. Please contact me at 404-562-9611 or my staff, Jamie Higgins at (404) 562-9681, if you want to discuss our comments.

Sincerely,

Heinz J. Mueller, Chief NEPA Program Office

Office of Environmental Accountability

Sleint Mueller

Enclosures

CEPP DEIS EPA Detailed Comments November 1, 2013

1. Wetlands:

EPA is concerned regarding the current project implementation schedule. Currently, A-2 FEB will be constructed in Phase 7 (the last phase) and year 19 of construction (page ES-6). EPA recommends that USACE consider moving the construction of A-2 FEB to an earlier date because most of the hydrological benefits of CEPP (averaging 210,000 acre-ft/year) will be realized upon construction of A-2 FEB (Figure 6-11, page 6-40).

EPA notes that project sequencing is critical to assuring that the Everglades receive water that meets applicable water quality standards. In particular, projects involving the L-4 levee degradation, L-5 canal improvements and L-6 diversion are planned for years 1-3. EPA is concerned that these projects will provide the ability to increase flow and discharge water (such as STA bypass events) directly into the northern marsh of WCA3A, regardless of the quality of that water. It is important that this water be fully treated by the Restoration Strategies projects prior to discharge into the Everglades. EPA requests to be involved with development of Operations Manuals for CEPP implementation and to be a member of the interagency Operations/Adaptive Management teams in order assist with addressing these water quality issues. The A-2 project, currently scheduled for year 19, is an essential component of treating flows greater than those in the Future Without (FWO) condition and Restoration Strategies prior to discharge into northern WCA3.

2. Water Quality:

a. Main Report:

- 1. On page ES-7, USACE states, "...FEB included in SFWMD's "Restoration Strategies" project. To achieve restoration objectives for WCA 3A, the recommended plan involves discharges from these stormwater treatment areas to previously un-impacted areas. Concerns were expressed about the effects of the new discharges on water quality and native flora and fauna in those un-impacted areas. Flows into WCA 3A must meet state water quality standards before discharges to un-impacted areas occur. To ensure that the recommended plan meets state water quality standards, discharge permits with associated effluent limits will govern discharges from the state facilities." All discharges to the Everglades must meet applicable water quality standards. Accordingly, EPA recommends that this statement should say, "discharges into WCA 3A...." not flows, and deleting the reference to un-impacted areas. It is important to note that all regulated discharges into all areas of the Everglades, not just un-impacted areas, must meet the WQBEL.
- 2. On page ES-8, USACE states, "The recommended plan also increases flows into Shark River Slough in Everglades National Park subject to the limits for total phosphorus contained in Appendix A of the 1991 Settlement Agreement for U.S. vs. SFWMD (Case No. 88-1886-Civ-Moreno) and in accordance with state water quality standards. Since the

compliance determination calculation is inversely proportional to flow, increases in flow will lower the compliance limit. State and federal water managers expressed concerns that the recommended plan may increase the probability of exceeding the compliance limit and agreed to consider reevaluating the Shark River Slough compliance calculation." The United States Department of Justice (DOJ) will need to agree to this language. Similar language shows up in Chapter 8.

- 3. On In Table 2-8, under water quality, USACE states, "The SFWMD Restoration Strategies water quality treatment plan will be fully in place by 2025. Compliance with the 2012 Consent Order WQBELs is expected after 2025 when the SFWMD has completed implementation of the Restoration Strategies water quality treatment plan." The NPDES permit also requires that the remedies be implemented and specifies that the WQBEL is effective immediately. EPA recommends USACE better explain this point in the FEIS.
- 4. On Table 6-3, page 6-28 (under water quality), USACE states, "Implementation of the project is not expected to significantly affect the water quality of Lake Okeechobee or the Northern Estuaries. Changes in the quantity, timing, and distribution of flows within WCA 3A and WCA 3B may result in temporary increases in phosphorus concentrations at some TP Rule monitoring stations; however, this should not significantly affect TP Rule compliance. Over the long-term, distributing the flow over the northern WCA-3A marsh, reducing short-circuiting down the canals, adding more flow from the lake that is treated to the WOBEL, should result in improved water quality within WCA 3 and a reduction in flow weighted mean total phosphorous concentration entering the Park. Southern Estuaries salinity conditions are expected to be improved by the project. Actions by the State of Florida's Restoration Strategies would decrease pollutant concentration and future loadings to the project area. If authorized in the next Water Resources Development Act Actions (WRDA), the Broward County WPA Project, (report approved in 2007) would reduce storm runoff deliveries to WCA 3 and improve water quality coming across Tamiami Trail." Also under the cumulative effect section, USACE states, "While anthropogenic effects on water quality are unlikely to be eliminated, water quality is expected to slowly improve over existing and recent past conditions." These paragraphs infer that water quality standards (TP) will not be met. The SFWMD cannot exceed water quality standards. EPA requests clarification regarding this paragraph and recommends that this paragraph better explain whether the proposed project will cause violations of standards.
- 5. In Table 5.1-3, Effects of Alternatives on Water Quality (page 5-14), USACE states, "There is risk that [W]QBEL will not be met without future modification of the Restoration Strategies plan; however, this risk is being minimized through implementation of the Restoration Strategies Science Plan which is a requirement of the Restoration Strategies Consent Orders and Framework Agreement." EPA disagrees with the first part of the sentence and believes that the Restoration Strategies projects in concert with an effectively implemented Science Plan should meet the WQBEL. EPA requests clarification and recommends that USACE better describe the Restoration Strategies plan in the FEIS.

b. Appendix C:

- 1. Water Quality (C.1.1.12.1 Nutrients, page C.1-52): USACE doesn't mention the Numeric Nutrient Criteria (NNC) or the current status of the 1991 Settlement Agreement compliance. However, further in the document (C.1.1.12.6 Everglades Agricultural Area, page C.1-58, and several other sections within Appendix C and Annex F) USACE better describes the NNC and Settlement Agreement. EPA recommends that the USACE cross-reference C.1.1.2.6 (and other applicable sections) in the Nutrients section.
- 2. WQBEL: In section C.1.3.12.3 Everglades Agricultural Area, page C.1-120, USACE states, "The [W]QBEL is applied at the discharge of each individual STA. Restoration Strategies documents produced by the SFWMD acknowledge that meeting the [W]QBEL will be difficult given that few of the existing STAs have demonstrated the ability to consistently produce effluent that meets this standard." EPA disagrees with this statement and thinks it incorrect. The Restoration Strategies was developed to ensure water quality standards will be met. EPA requests USACE clarify this statement or delete it from the FEIS.
- 3. On page C.1-121, USACE states, "Nutrient and sulfate concentrations and loads for WCA 3A for the FWO condition should decrease relative to the existing baseline condition because of the implementation of the SFWMD's Restoration Strategies features within the eastern flow path of the EAA." EPA requests USACE confirm that eastern flow path efforts are projected to affect central flow path discharges into WCA3A.

c. Annex F:

- 1. Annex F is generally well presented.
- 2. On page F-3, USACE states, "Compliance with WQBEL for the STAs cannot be determined until all corrective actions have been completed and sufficient discharge data exists to assess compliance with both components of the WQBEL. Compliance with the WQBEL shall be determined based on the conditions contained within the NPDES permit (FL0778451), EFA permit (0311207), NPDES Consent Order (12-1148), and EFA Consent Order (12-1149)." The WQBEL has two parts which both must be met: STA discharges shall not exceed 13 parts per billion (ppb) as an annual flow-weighted mean (FWM) in more than three out of five years on a rolling basis (Part 1), and shall not exceed 19 ppb as an annual FWM in any water year (Part 2). Once corrective actions have been completed, if in the first subsequent year the STA discharges at higher than 19 ppb, then it is possible to determine that the WQBEL is not met at that time. This phrase should be deleted: "and sufficient discharge data exists to assess compliance with both components of the WQBEL."
- 3. On page F-7,USACE states, "For instance, it is possible that the water depth and duration of inundation may cause the FEB to be less efficient at removing TP than predicted by the DMSTA2 modeling presented here. This may result in a failure to consistently meet the WQBEL at the outfall of STA 3/4 and STA 2B." A failure to meet the WQBEL is a problem. EPA requests clarification on this statement.

- 4. On page F-9, USACE refers to FWM TP concentrations shown in Table F-1. This is the wrong citation.
- 5. On page F-26, USACE, "The TP concentrations at these structures are elevated, although the adjacent marsh concentrations are low, where the average annual concentration (for Federal Water Year Oct-1 to Sep- 30) varies between approximately 10 and 39 ppb." These referenced concentrations are from the structures, not the adjacent marsh, as the sentence currently reads. EPA recommends USACE more accurately discuss this in the FEIS.
- 6. On page F-27, Table F-6 provides arithmetic average TP data for grab samples at structures in canals near Shark Slough. Annual water year TP averages presented as a flow-weighted mean or geometric mean would be more informative since all Everglades structure discharge compliance data are presented as flow-weighted means, and marsh data are presented as geometric means.
- 7. On page F-29, USACE states, "The TP concentrations at these SRS marsh stations are expected to remain at or below existing background levels given the distribution of flows across the length of the degraded levee." "When more natural overland flow is established with CEPP, there is uncertainty as to how loading and water movement will affect how total phosphorous concentrations in the marsh respond." These two statements appear to be contradictory. How does one conclude what marsh concentrations are expected given the uncertainty? EPA suggests further qualifying "expected" in the first sentence.
- 8. On page F-30, USACE states "(2) although long-term TP concentrations and loads entering northeast SRS are expected to decrease,..." Flow into the Park is expected to be increased by over 120,000 acre-feet from the FWO, and the FWO TP concentrations are already low at 10 ppb. Please confirm that loads are expected to decrease.
- 9. On page F-35, the following statements appear to be contradictory: "Notwithstanding the inability to confidently predict future SRS inflow concentrations, SRS TP concentrations are expected to improve relative to ECB conditions and are likely to improve under ALT4R2 conditions." "Given the magnitude of the hydrologic changes proposed in ALT4R2, this project presents some risk of future non-compliance with water quality criteria particularly in WCA-3 and at SRS." If SRS TP concentrations already meet water quality criteria and concentrations are expected to improve, then how does the project present some risk of future non-compliance?

d. Mercury and Sulfur:

There are many specific statements about mercury or sulfur in Appendix C and the DEIS that need a citation. There are other statements that tend to overstate the science and overlook scientific uncertainty. EPA is committed to providing technical assistance to the USACE to address these portions of the EIS. Some examples follow. Page C.1-52 states that approximately 90% of atmospheric mercury in peninsular Florida is sourced internationally (no reference, and this is an area of scientific disagreement). Please cite the Florida mercury TMDL as appropriate and confirm the statement or revise as needed. On page 5-15 and elsewhere there are statements that mercury load available for net methylation in the Everglades is likely to increase as a result

of increased atmospheric load (no reference). On page C.1-53 it states that between 1997 and 2012 fish tissue has fallen significantly in response to reductions in local mercury sources. (The 2014 draft SFER notes that any significant decrease in largemouth bass occurred prior to WY2000 and concentrations in the Park have been increasing over this same time period; 2014 draft SFER reports no change in Everglades mercury wet deposition from WY 1996-2012.) The relationship between specific sulfate and mercury concentrations on page C.1-53 is stated as fact rather than hypothesis (this is an area of scientific debate, and citations are needed). EPA agrees with the summary statement on page C1.121 which better reflects this uncertainty: "Given the complexity of the methylmercury cycle, it is not possible to predict with certainty the effect of future hydrology and mercury/sulfate loading on methylmercury formation and bioaccumulation."

3. EIS Lay Out:

The USACE's layout of the DEIS is noticeably different from typical EIS and EISs from other federal agencies as well as USACE regulatory EISs. EPA understands that the USACE has developed a new way of conducting NEPA and feasibility studies called "Smart Planning," EPA appreciates the USACE's attempts at streamlining NEPA to produce more efficient and effective documents; however, 40 CFR Parts 1500-1508 outlines the requirements for an EIS. The current lay out of the EIS omits key sections required by NEPA (40 CFR 1502.10). For example, omitted from the DEIS is the "Affected Environment" and "Environmental Consequences" section of the EIS. Omission of these important sections of the DEIS is confusing not only to resource agencies, but other stakeholders and the public. The table of contents table roughly outlines the location of required EIS sections; however, some sections are scattered throughout the DEIS. For example, the required "Environmental Consequences" section can be found scattered throughout Sections 4, 5 and 6 and the "Alternatives Section" can be found in Section 3, 5, and 6. This disjunction can lead to confusion and lacks the transparency required of NEPA. Most of the information regarding "Affected Environment" and "Environmental Consequences" can be found in the main document (Section 2, 4, 5 and 6) and Appendix C. EPA recommends that USACE state the page numbers that various EIS sections can be found within the document to assist the reader in finding the pertinent information. Additionally, EPA recommends that the USACE consider formatting future EIS's to more closely follow the NEPA EIS template instead of the feasibility study template.

4. Environmental Justice (EJ) and Children's Health:

There is no mention of EJ in Section 2 (Existing and Future Without Conditions) or Appendix C. There is a short paragraph discussing EJ and NEPA and the USACE asserts "....no high or adverse effects." However, the USACE doesn't identify potential EJ communities (other than tribal communities) within the EIS. Did USACE conduct any EJ specific outreach opportunities? Additionally, we recommend that the USACE better outreach to known EJ communities within the study area. In the FEIS, EPA recommends that the USACE identify EJ communities and potential impacts (both positive and negative) to these communities in both Section 2 and Appendix C. For example, reduced flows (and thus lowered nutrient levels) discharging from the St. Lucie and Caloosahatchee canals could improve fisheries production, which might benefit EJ communities along the coast. Additionally, there is no mention of

children's health in the DEIS. Executive Order 13045: Protection of Children from Environmental Health Risks and Safety Risks encourages federal agencies to consider impacts and risk to children's health when planning projects. EPA recommends USACE describe any possible children's health risks in the FEIS.

5. Tribal Consultation:

The DEIS discusses ongoing tribal consultation. EPA encourages continued consultation with the Seminole Tribe of Florida and Miccosukee Tribe of Indians of Florida at all levels of decision-making. The EPA works closely with both Tribes on Everglades matters and is committed to working with other federal partners to prioritize the Tribes' water quality and water management concerns.

6. Table 2-1. Existing Conditions and Future Without Project Conditions.

- a. Cross-reference to Appendix C: This table does an adequate job of briefly describing the existing conditions; however, there are no citations within the table that would reference each specific condition to more detailed information in Appendix C. For ease of use and readability, EPA recommends USACE cite the section in which each specific condition can be found within Appendix C.
- b. Water Quality entry: The water quality entry (pg 2-8) discusses TMDLs, and states that implementation of TMDLs would improve water quality. However, the USACE doesn't list the TMDLs or the status of development or implementation of the TMDLs. EPA recommends USACE better discuss TMDL implementation within Appendix C and cross reference in Table 2-1. Additionally, USACE states, "Compliance with the 2012 Consent Order WQBELS is expected after 2025 when the SFWMD has completed implementation of the Restoration Strategies water quality treatment plan." However, it is not just the 2012 consent order, but the NPDES permit that also requires the remedies be implemented and the WQBEL is effective immediately. EPA recommends USACE better discuss the Restoration Strategies in the FEIS.
- c. Air Quality entry: In the Air Quality entry (pg 2-9) under the FWO, USACE states that, "It is anticipated that increased population and economic expansion in southeast Florida will result in an increase in ozone and other air quality pollutants." EPA believes there is no basis for this statement and requests clarification. Additionally, there are inconsistencies in how population numbers are presented. For example, in the Water Supply entry (page 2-8), states "Economic forecasts have changed since the Restudy, decreasing the population projections...", which seems contradictory to the population statement in the Air Quality entry. Additionally, in the Populations section (page 2-9) discusses population trends and expansion from 1950 to 2000. EPA recommends that USACE use the 2010 Census data or more recent population projection data to more adequately discuss population trends and consistently use these numbers in Table 2-1 and other sections within the document.

7. Graphic Displays:

- a. Figure 2 (page ES-3) is an excellent graphic comparing the various components of each alternative. However, the graphic is too small and is hard to read. EPA recommends that the Figure 2 (and other displays of this graphic) be enlarged to a full page so it is easier to read.
- b. Appendix C: EPA recommends the map on page C.1-84 depict the difference between the red and yellow highlighted areas.

U.S. ENVIRONMENTAL PROTECTION AGENCY ENVIRONMENTAL IMPACT STATEMENT (EIS) RATING SYSTEM CRITERIA

EPA has developed a set of criteria for rating Draft EISs. The rating system provides a basis upon which EPA makes recommendations to the lead agency for improving the draft.

RATING THE ENVIRONMENTAL IMPACT OF THE ACTION

- \$ LO (Lack of Objections): The review has not identified any potential environmental impacts requiring substantive changes to the preferred alternative. The review may have disclosed opportunities for application of mitigation measures that could be accomplished with no more than minor changes to the proposed action.
- \$ EC (Environmental Concerns): The review has identified environmental impacts that should be avoided in order to fully protect the environment. Corrective measures may require changes to the preferred alternative or application of mitigation measures that can reduce the environmental impact.
- \$ EO (Environmental Objections): The review has identified significant environmental impacts that should be avoided in order to adequately protect the environment. Corrective measures may require substantial changes to the preferred alternative or consideration of some other project alternative (including the no action alternative or a new alternative). The basis for environmental objections can include situations:
 - 1. Where an action might violate or be inconsistent with achievement or maintenance of a national environmental standard;
 - Where the Federal agency violates its own substantive environmental requirements that relate to EPA's areas of jurisdiction or expertise;
 - 3. Where there is a violation of an EPA policy declaration;
 - Where there are no applicable standards or where applicable standards will not be violated but there is potential for significant
 environmental degradation that could be corrected by project modification or other feasible alternatives; or
 - Where proceeding with the proposed action would set a precedent for future actions that collectively could result in significant environmental impacts.
- \$ EU (Environmentally Unsatisfactory): The review has identified adverse environmental impacts that are of sufficient magnitude that EPA believes the proposed action must not proceed as proposed. The basis for an environmentally ansatisfactory determination consists of identification of environmentally objectionable impacts as defined above and one or more of the following conditions:
 - The potential violation of or inconsistency with a national environmental standard is substantive and/or will occur on a long-term basis:
 - There are no applicable standards but the severity, duration, or geographical scope of the impacts associated with the proposed action warrant special attention; or
 - The potential environmental impacts resulting from the proposed action are of national importance because of the threat to national environmental resources or to environmental policies.

RATING THE ADEQUACY OF THE ENVIRONMENTAL IMPACT STATEMENT (EIS)

- \$ 1 (Adequate): The Draft EIS adequately sets forth the environmental impact(s) of the preferred alternative and those of the alternatives reasonably available to the project or action. No further analysis or data collection is necessary, but the reviewer may suggest the addition of clarifying language or information.
- \$ 2 (Insufficient Information): The Draft EIS does not contain sufficient information to fully assess environmental impacts that should be avoided in order to fully protect the environment, or the reviewer has identified new reasonably available alternatives that are within the spectrum of alternatives analyzed in the Draft EIS, which could reduce the environmental impacts of the proposal. The identified additional information, data, analyses, or discussion should be included in the Final EIS.
- \$ 3 (Inadequate): The Draft EIS does not adequately assess the potentially significant environmental impacts of the proposal, or the reviewer has identified new, reasonably available, alternatives, that are outside of the spectrum of alternatives analyzed in the Draft EIS, which should be analyzed in order to reduce the potentially significant environmental impacts. The identified additional information, data, analyses, or discussions are of such a magnitude that they should have full public review at a draft stage. This rating indicates EPA's belief that the Draft EIS does not meet the purposes of NEPA and/or the Section 309 review, and thus should be formally revised and made available for public comment in a supplemental or revised Draft EIS.



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL MARINE FISHERIES SERVICE

October 31, 2013

To: Dr. Gretchen S. Ehlinger

US Army Corps of Engineers

P.O. Box 4970.

Jacksonville, FL 32232-1682 ceppcomments@usace.army.mil

From: Joan A. Browder

Ecosystems Investigations Unit

Protected Resources and Biodiversity Division

Subject: Comments on the CEPP Planning Process

Dear Dr. Ehlinger:

Thank you for the opportunity to comment on the Project Implementation Report and related documents of the Central Everglades Project Plan (CEPP). My comments are from the viewpoint of a scientist at the NOAA-NMFS Southeast Fisheries Science Center who is working with RECOVER, is a member of the RECOVER Leadership Group, and has taken part in some of the planning workshops. My comments in no way supplant or intentionally contradict any comments provided by resource managers in the Habitat Conservation or Protected Resources divisions of the NOAA-NMFS Southeast Regional Office, St. Petersburg, Florida, who may be commenting.

I support the objectives of CEPP, as stated in the PIR. I agree that Alternative 4R2, as refined to avoid the potential damage to the water supply of the Lower East Coast and Biscayne Bay that was suggested by the hydrologic models used in plan development, is the best choice as the Tentative Selected Plan. I am encouraged that the tentatively selected plan will, as expected, benefit Florida Bay and the southwest Florida coast by augmenting freshwater flow to these estuaries and thus reducing the intensity and duration of ecologically damaging high salinity levels and variations in both ecosystems. I hope that the implemented plan will prevent the St. Lucie and Caloosahatchee River ecosystems from receiving excessively high regulatory discharges from Lake Okeechobee such as those that occurred this year.

My main points of concern are directed at the treatment of Biscayne Bay in the Draft Plan. Although concerns for potential effects of the preferred alternative on freshwater flows to Biscayne Bay are expressed in several places, especially the Adaptive Management Plan, the scarcity of any mention of Biscayne Bay in the main sections of the plan, even where the Lower East Coast (LEC) is mentioned, is surprising. Surely the



potential loss of freshwater flow to Biscayne Bay if the water table east of L31-N is lowered by the Tentative Selected Plan is an unresolved issue that should be listed in the ES section. Lack of mention of Biscayne Bay in the description of the South Florida geography, even when the LEC is described (page 1-5), is another glaring omission. This omission might cause confusion to readers when, later in this document, possible impacts of the Project on Biscayne Bay are mentioned. I suggest adding the following wording to the LEC section of Table 1-1, Description of the Study Area Regions: "Biscayne Bay and the contiguous water bodies Card, Little Card, and Barnes sounds and Manatee Bay lie along the eastern mainland boundary of the Lower East Coast and receive their freshwater supplies as inflows of surface and groundwater that are dependent on water table stages east of L31-N."

Biscayne Bay also should be mentioned on page 1-11 under "Constraints" and on page 3-30 with respect to seepage management and possible effects on freshwater flows to Biscayne Bay (i.e., in section 3.2.4 Screening of Seepage Management (Yellowline).

Finally in Section 4, Evaluation and Comparison of Alternative Plans, Table 4-1, Biscayne Bay is mentioned in the last objective, "Reduce water loss (seepage out of the natural system to promote appropriate dry season recession rates for wildlife utilization"; however, the omission is in the last sentence, which reads "The TSP will be modified to reduce seepage management infrastructure and/or improve operations in order to avoid impacts to water supply. (I suggest that you insert the following in front of the period ", including water flows to Biscayne Bay".)

The next objective, "Increase availability of water supply", fails to specifically say that efforts will be made to increase water flow to Biscayne Bay.

Fortunately, these issues and the potential for making improvements in performance relative to Biscayne Bay, are included in the Adaptive Management Plan, although in some cases reference to Biscayne Bay is obtuse.

Looking over the plan, it seems even more unfortunate, in retrospect, than at the beginning of Central Everglades planning, that Biscayne Bay, as a southern estuary influenced by CERP, was not given full membership in the study area and the planning process. Biscayne Bay is important to the economy and wellbeing of Miami-Dade County. Greater Biscayne Bay (including the sounds and Manatee Bay) is the site of Biscayne National Park, a Florida Aquatic Preserve, and the upper part of the NOAA Florida Keys National Marine Sanctuary. Maintaining its freshwater supply is crucial to its future and its natural and economic value.

In all modeling work exploring the potential for preventing any decrease in flows to Biscayne Bay and augmenting flows to Biscayne Bay, relative to existing conditions, special emphasis should be given to mid and late dry season flows, which are especially stressful to the ecosystem. Hypersaline conditions have already been recorded near the western shoreline of Biscayne Bay, which has no fresh water inflow to spare.

Two other comments on the CEPP PIR: Longer hydroperiods and higher water tables in the Greater Everglades could potentially increase both local and regional rainfall, since evapotranspiration will increase. An increase in evapotranspiration is mentioned as an effect of the Alternatives, but increased rainfall is not.

Silica should be added, along with nitrogen and phosphorus, as a nutrient to follow in water released from the Greater Everglades to the southern estuaries (e.g., Florida Bay and Biscayne Bay), because blooms of diatoms that occur in these systems may be promoted by silica loads flushed from the Everglades after release from soils.

SEMINOLE TRIBE OF FLORIDA

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Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, Florida 32232-0019

Dear Dr. Ehlinger:

We are writing to provide comments on the Central Everglades Planning Project (CEPP) Draft Integrated Project Implementation Report/Environmental Impact Statement (CEPP PIR/EIS) on behalf of the Seminole Tribe of Florida. The Seminole Tribe continues to support the protection of water for the natural system and appreciates the opportunity to comment on the CEPP PIR/EIS. The Seminole Tribe and the Army Corps of Engineers (USACE) have a long history of working together for the preservation and restoration of the Everglades, and the Seminole Tribe looks forward to continuing this relationship. Please accept for review the Seminole Tribe's combined comments addressing some general, water resource, environmental, and cultural resource issues for the CEPP PIR/EIS. Additional and more detailed comments are attached as Appendix A to this letter.

The Seminole Tribe is a long standing supporter of Everglades restoration, supporting the Restudy and CERP, including funding a cost share Critical Project with the USACE to bring water to the Big Cypress Seminole Indian Reservation and ultimately to historic flow-ways when conditions allow. This project is still in construction and is not yet achieving all of its intended benefits for wetland restoration on the Reservation, Addition lands, and the Big Cypress National Preserve.

As the Central Everglades Planning Project is being planned and moved forward the Seminole Tribe of Florida has continued to ask for inclusion of the Big Cypress Seminole Indian Reservation in the planning and study area to ensure no harm occurs to the Seminole Tribe's resources and more importantly to identify opportunities for CEPP to provide water to the Western Everglades for restoration purposes. The Seminole Tribe appreciates the anticipated benefits to WCA-3A where the Seminole Tribe has hunting, fishing, trapping and frogging rights and the modeling efforts that have been done to ensure that the Seminole Tribe's water rights continue to be delivered. However, the Seminole Tribe remains concerned that there is still no solution included to supply water to the Western Everglades for restoration of this area. There has not been enough attention paid to this area, including necessary monitoring and modeling to adequately assess

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impacts from CEPP to the area and to assess restoration alternatives. To that end the Seminole Tribe has brought to the attention of the USACE and the SFWMD from the beginning of the CEPP scoping effort its concerns about the restoration needs in the western Everglades. As a result your agency and the SFWMD as a part of the Task Force for South Florida Ecosystem Restoration (Task Force) has been meeting with the Seminole Tribe and other agencies to discuss these issues and to start work on a plan for the restoration of this important part of the Everglades.

The current draft EIS recognizes the meetings that are occurring among the Task Force member agencies and Tribes, including the Seminole Tribe of Florida, to discuss the issues the Tribe has raised, including restoration of the wetlands on the Tribe's Big Cypress Reservation, Big Cypress National Preserve, and Addition lands. However, due to the lack of data, monitoring, and modeling in this area the agencies are not yet at a point to make significant commitments to the Seminole Tribe of Florida for restoration of the area. The Seminole Tribe remains concerned about the lack of attention given to the Western Everglades. The Seminole Tribe's continued support of CEPP is based on the understanding that the USACE and the SFWMD will continue to work with the Seminole Tribe towards restoring and rehydrating the Western Everglades system including the Big Cypress Reservation, Big Cypress National Preserve, and the Addition lands. Specific comments on water resources are included in Appendix A to this letter.

The Seminole Tribe appreciates the USACE's consultation efforts with regard to cultural resources. The USACE's archaeologist Cynthia Thomas has made an admirable effort to consult with the Seminole Tribe early and often. This is the first project that the USACE has conducted early formal government to government consultation on cultural resources with the Seminole Tribe. This approach is greatly appreciated, and we are hopeful this approach will be taken with existing and future projects. During the consultation process, the Seminole Tribe expressed concerns about the level and quality of the archaeological work conducted by the USACE's consultants. The Seminole Tribe also expressed concerns over the numerous unknowns regarding cultural resources within the area of potential effect. In response to the unknowns, the USACE committed to the completion of a human remains policy that would be a binding agreement governing the treatment of burial resources and would serve as an adaptive management plan for the protection of burial resources. The development of such an agreement was first proposed by Colonel Pantano, which the Seminole Tribe supported. The Seminole Tribe is encouraged by the USACE's assurance to continue to honor Colonel Pantano's commitment to protect burial resources in a culturally sensitive manner. The human remains agreement has not yet been finalized; however, we look forward to continuing to work with the USACE on its completion. It is critically important that the District Engineer's recommendations for CEPP capture this commitment to develop this Agreement. Therefore, we respectfully request that the development of this human remains agreement be included in the District Engineer's recommendations in the PIR. Attached in Appendix A

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are more detailed comments regarding cultural resources. We thank you in advance for your consideration of these comments and continuation of the consultation process.

Finally, please find attached a copy of an earlier commentary email with some attached handwritten comments to the draft PIR which was sent in on behalf of the Seminole Tribe to the USACE but not included in the comments section of the document. Please include these in Appendix B as part of the consultation record with the Seminole Tribe.

Again, the Seminole Tribe appreciates the opportunity to review and comment on the Central Everglades Planning Project *Draft Integrated Project Implementation Report/Environmental Impact Statement.* Thank you for your consideration of these comments.

Yours Sincerely.

Cherise Maples, Interim Director Environmental Resource Management Department 6300 Stirling Road, Suite 109

Hollywood, FL 33024

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c: James E. Billie – Seminole Tribe of Florida
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Appendix A

This Appendix A contains the Seminole Tribe of Florida's additional, more detailed environmental, water resource and cultural resource comments on the CEPP PIR/EIS.

1. Seminole Tribe's Hunting, Fishing, Trapping, and Frogging Rights

In Section 2.6 of the Main Report, the document recognizes the Seminole Tribe's hunting, fishing, and frogging rights in WCA 3A. The Seminole Tribe appreciates that the CEPP PIR/EIS recognizes these rights but requests that the word "trapping" be added to this list to more completely describe the Seminole Tribe's rights and match the language in the 1987 Seminole Tribe of Florida and State of Florida Settlement Agreement. Similarly, Section 5.3 states that subsistence activities for members of the Seminole Tribe include hunting and fishing; the Seminole Tribe requests that the terms "trapping" and "frogging" be added to this sentence.

Additionally, in Section 6.1.2.3, which is in the Tentatively Selected Plan section under Lands and Interests in Lands for Water Conservation Area 3A and 3B, the Seminole Tribe requests that language be added stating that the Seminole Tribe has customary usage rights in WCA 3A. The Seminole Tribe has legally protected interests in these lands that should be acknowledged here. It should also be acknowledged that this area holds significant cultural significance to the Seminole Tribe in addition to its customary usage rights.

II. Seminole Tribe of Florida

Annex B (Analyses Required by WRDA 2000) refers to the Seminole Tribe by a variety of different names, including but not limited to the "Seminole Indian Tribe" and the "Seminole Indian Tribe of Florida." The Seminole Tribe requests that this document be changed to refer to the Seminole Tribe consistently as "the Seminole Tribe of Florida."

III. Water Supply to the Seminole Tribe

In Table B-4 of Annex B, under (ii), the table contains the following sentence fragment: "Implementation of the project will not reduce the levels of service for flood protection within the areas affected by the project including". This sentence should be

completed to say "including the Seminole Tribe of Florida's Brighton and Big Cypress Reservations."

Also in Annex B, Section. B.3.1.3 states "the Seminole Indian Tribe also withdrawals groundwater ..." In addition to changing the document to refer to the Seminole Tribe as the Seminole Tribe of Florida, this sentence should change the word "withdrawals" to "withdraws."

Additionally, on page C-19 of Annex C (Draft Project Operating Manual) a sentence reads "S-630 would be located in the L-4 Canal, east of the existing L-4 Levee gap, to maintain existing water supply deliveries to the Seminole Tribe reservation ..." The Seminole Tribe appreciates that the document references maintaining the existing water supplies, but requests that this sentence specifically identify the Reservation so as to provide greater clarity.

The Seminole Tribe would also like to reiterate that it remains interested in continued discussions on assisting the USACE and SFWMD in their water management goals by taking excess water from Lake Okeechobee for storage on the Big Cypress Reservation, thereby helping restore the natural areas on the Reservation, as well as Big Cypress National Preserve and the Addition lands. This would be an achievable, positive step towards restoration of the Western Everglades and the Seminole Tribe continues to support CEPP with the understanding and expectation of further consultation on this matter with the USACE and the South Florida Water Management District.

IV. Modeling

The Seminole Tribe has continuously requested that the USACE consider discussing the possibility of sending water from Lake Okeechobee to the Big Cypress Reservation for storage, which would also benefit the ecological health of the Western Everglades. Although the modeling for CEPP has considered the Seminole Tribe's entitlement to water, it has not considered the Seminole Tribe's restoration needs for the Western Everglades area and the Tribe's potential ability to store excess water from Lake Okeechobee. The Seminole Tribe requests further modeling so the Seminole Tribe, the USACE and the SFWMD can better understand the quality and quantity of any water that might be delivered to determine if such a delivery would be mutually beneficial. Additionally, the modeling fails to address the Seminole Tribe's water needs for natural resources and customary usage. The modeling should consider the impact on the Seminole Tribe's Big Cypress Reservation and the western basins with regard to these concerns.

V. Cultural Resource Comments

The CEPP Area of Potential Effects ("APE") landscape is populated with over 20,000 known archaeological sites, including numerous burial sites. It is suspected that there are many more sites that have not yet been discovered. These sites (known and unknown), especially the burial sites, hold significant cultural/religious importance to the Seminole Tribe. The tree island landscape, which usually host these sites, form the fabric of the

Seminole Tribe's cultural identity. As the PIR/EIS acknowledges, there have been decades of unmitigated impacts to tribal cultural resources due to water control projects. The Seminole Tribe is encouraged by the commitments made by the USACE during the consultation process to move forward with treating these sites in a culturally sensitive manner. We respectfully request the PIR/EIS be amended to reflect those commitments as the Seminole Tribe has made significant efforts to be a partner in Everglades restoration, including CEPP.

The Seminole Tribe is also encouraged by the stated goals of restoring historic water levels/hydrological patterns and restoring/preserving tree islands and ridge/slough systems. Appropriately designing the CEPP project to achieve and monitor these goals will enhance the protection of cultural sites within the APE. Generally, most cultural sites are located on tree islands. Various studies have been conducted noting the significant impacts water control projects have had on tree islands (for example: http://www.sfwmd.gov/portal/page/portal/PG GRP SFWMD WATERSHED/Tree Island-Research413?project=1338&ou=440;

http://www.sfwmd.gov/portal/page/portal/PG_GRP_SFWMD_WATERSHED/WCA_Historical_Tree_4387project=1354&ou=440). We are encouraged that the USACE is committed to restoring and preserving these environmentally and culturally significant resources.

A. District Engineer's Recommendations

During the government to government consultation process, the Seminole Tribe raised a significant concern about the USACE relying on insufficient data (unknowns) concerning cultural resources and impacts. The Seminole Tribe's comments were based on the concern that the lack of cultural resource data and potential errors in hydrological modeling could result in unintended impacts to burial resources. The USACE acknowledged the Seminole Tribe's concerns and a mutual commitment was made that the Jacksonville District Human Remains Policy (currently in development) would serve as the mechanism to address treatment of burial resources within the CEPP APE. This Policy would be formalized as a binding agreement between the USACE and the participating tribal governments. In essence, the Human Remains Policy would serve as a legal agreement: (1) to resolve impacts to burial resources under both Federal Trust Responsibility and Section 106 of the National Historic Preservation Act and (2) to be the basis for an adaptive management plan for cultural resources if unintended impacts occurred.

The purpose of the District Engineer's Recommendations in any PIR is to set forth all the necessary agreements with federal, state, Tribal and local governments. However, the current PIR does not include the development of the Jacksonville District Human Remains Policy, which will govern the CEPP project. We therefore request the following language be added to Section 8, the District Engineer's Recommendations: "The USACE is in the process of entering into a binding agreement with the Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida setting forth protocols for the appropriate treatment of burial resources throughout the Jacksonville District pursuant to the Federal Trust Responsibility and Section 106 of the National Historic Preservation Act. The USACE

shall enter into this binding agreement and it will govern the treatment of burial resources that are culturally/religiously significant to the participating tribal governments."

B. Compliance with the National Historic Preservation Act

The PIR/EIS repeatedly states that the project is in compliance with the National Historic Preservation ACT ("NHPA"); however, the USACE does not state how it is in compliance. It is important to note that the Advisory Council on Historic Preservation's regulations and case law is clear that Section 106, NHPA is not satisfied when an agreement to resolve adverse impacts is not finalized before completion of the National Environmental Policy Act documentations or before the Record of Decision. understand that the USACE is in the process of developing a human remains policy that would resolve, pursuant to the Trust Responsibility and Section 106, impacts to burial resources. These burial resources may also be Section 106 properties in addition to being trust resources. We also understand that the USACE is in the process of completing studies pursuant to the Environmental Restoration Transitional Plan Programmatic Agreement in order to assess Section 106 impacts resulting from water control projects. However, at some point the USACE will need to develop a legally binding agreement to address Section 106 impacts that are not covered by the human remains policy. Until such time as the human remains policy and the Section 106 agreement are finalized, the USACE is in process of complying with the NHPA but is not yet in compliance. The Seminole Tribe is hopeful that the USACE will continue to honor its commitment to develop the human remains policy. The USACF acknowledges that compliance has not yet been achieved on page C.2.2-121 of Appendix C but erroneously provides it is in compliance in other sections. The acknowledgement that compliance is not yet achieved but ongoing should be consistently stated throughout the document.

C. Effects of the Alternatives and the Tentatively Selected Plan

The USACE outlines its assessment of direct and cumulative impacts to cultural resources both in the Main Report and in Appendix C. The Seminole Tribe is concerned that this evaluation does not reference avoidance and minimization efforts and implies that only mitigation (excavation of resources) will occur. In Sections 5.1.16 and 6.3.3 of the Main Report, the USACE simply notes that direct and cumulative impacts to cultural resources will be adverse and significant and that mitigation measures might lessen the impacts. There is absolutely no mention of the USACE undertaking avoidance or minimization efforts. The same is true in Sections C.2.1.17, C2.2.17, and C.2.2.19/Table2.2-16 (Appendix C); the PIR/EIS does not provide any discussion of avoidance or minimization of direct or cumulative impacts to cultural resources. Conversely, the USACE specifically provides it will undertake efforts to avoid, minimize and mitigate environmental impacts. Based on the exclusion of avoidance and minimization with regard to cultural resources, the Seminole Tribe is concerned that the USACE is not planning on considering or pursuing such measures. Such an approach is inconsistent with both the Federal Trust Responsibility and the NHPA. We respectfully request that the assessment of impacts include a discussion on avoidance and minimization.

ii. Further, it appears the assessment of impacts was only evaluated under the NHPA. It is important that the PIR/EIS evaluate impacts pursuant to the Federal Trust Responsibility as well. The federal government's trust obligation is more than just formal consultation and requires consideration and protection of cultural resources. The Advisory Council on Historic Preservation defined the federal trust obligation as "establish[ing] [a] fiduciary obligation to the tribes including duties to protect tribal lands and cultural and natural resources for the benefit of tribes and individual members/land owners." See ACHP Policy Statement Regarding the ACHP's Relationships with Indian Tribes, dated November 17, 2000. Similarly, the Department of Defense implemented its American Indian and Alaska Policy in October 1998 ("Department of Defense American Indian Policy"), recognizing the significance tribes "ascribe to certain natural resources and properties of traditional or customary religious or cultural importance."

The Department of Defense's American Indian Policy provides for enhancing tribal capabilities to "effectively protect and manage natural and cultural tribal trust resources whenever [Department of Defense] acts to carry out a program that may have the potential to significantly affect those tribal trust resources." By memorandum dated February 18, 1998, the USACE announced six basic tribal policy principles that must guide the USACE' decision-making when actions may affect tribes and trust resources: (1) tribal sovereignty; (2) trust responsibility; (3) government to government relations; (4) pre-decisional and honest consultation; (5) self reliance, capacity building and growth; and (6) natural and cultural resources. Specifically, the USACE stated that it "will act to fulfill obligations to preserve and protect trust resources" whereby trust resources include cultural resources. See Memorandum for Commanders, Major Subardinate Commands, and District Commands, dated February 18, 1998. In doing so, the USACE "will reach out...to involve Tribes in collaborative processes designed to ensure information exchange, consideration of disparate viewpoints before and during decision making, and utilize fair and impartial dispute resolution mechanisms." Id.

Therefore, the USACE owes the Seminole Tribe the obligation to preserve and protect the cultural resources within CEPP in addition to its obligations under the NHPA (NHPA does not supersede the Trust Responsibility). The Seminole Tribe respectfully requests the PIR/EIS include an evaluation of the impacts pursuant to the Trust Responsibility.

iii. Finally, the assessment of impacts is completely void of any discussion of the Jacksonville District Human Remains Policy, which will govern both the treatment of impacts to burial resources and set forth how impacts to such resources will be assessed. This agreement will be critical to the assessment and treatment of impacts to burial resources and should be included in the discussion of impacts to cultural resources.

D. Relationship to ERTP

The ERTP APE overlaps with the CEPP APE. Throughout the PIR/EIS the USACE references studies that will be required pursuant to the ERTP Programmatic Agreement. The ERTP Programmatic Agreement also provides that treatment of burial resources will be conducted consistent with the ERTP Human Remains Policy, which is a binding

agreement between the USACE and the Seminole Tribe (along with other state and federal parties). Until such time as the Jacksonville District Human Remains Policy is formalized, the ERTP Human Remains Policy remains the governing document for resolution of impacts to burial resources within the ERTP APE. The PIR/EIS should be revised to include the ERTP Human Remains Policy in the discussion of existing conditions/present actions and assessment of impacts.

E. Government to Government Consultation

The Seminole Tribe appreciates the USACE's early consultation efforts concerning cultural resources. This approach has helped create a mutual understanding and hopefully will help avoid future conflicts regarding cultural resources. We hope that the USACE will duplicate this approach for future projects. The Seminole Tribe does want to point out that the CEPP consultation process concerning cultural resources was not just conducted pursuant to the NHPA. The cornerstone of the federal government's relationship with Indian Country is the Federal Trust Responsibility. It is a special fiduciary obligation that carries with it the duty to act "with good faith and utter loyalty to the best interests" of federally recognized Indian Tribes such as the Seminole Tribe. The principal component of a federal agency's fiduciary trust obligation to Indian Tribes is the duty to formally consult with Indian Tribes (government-to-government) on actions that may impact their interests including historic properties. Although the NHPA includes a specific requirement for federal agencies to consult with Indian Tribes during the Section 106 review process, the duty to conduct government-to-government consultation is primarily a Trust obligation mandating federal agencies to act in a fiduciary capacity. In short, the NHPA requirements do not supersede the Federal Trust Responsibility.

F. Archaeological Data

As noted earlier, at this point there are more unknowns about cultural resources. within the APE than there are known data. In part, this is due to the archaeological surveys being done during a very wet period which prevented the USACE contracted archaeologists from completing sufficient surveys. Less than one percent of the APE was selected for survey and out of that sample size only a few sites were dry enough to partially test. It is important to note that despite the self imposed limitations, the surveys discovered culturally significant material including burial resources at a high percentage rate. Therefore, it is highly likely that there are numerous unknown cultural sites within the APE. As the project moves forward, we respectfully request the USACE conduct more survey work during dry periods. We are also confident that if the USACE protects and restores the tree islands within the APE, that the likelihood of unintended impacts will be greatly lessened. However, sufficient monitoring will be necessary to determine impacts and to appropriately identify sites. The PIR/EIS is currently void of any discussion regarding archaeological monitoring. The Seminole Tribe suspects that archaeological monitoring can be done in conjunction with monitoring tree islands if the right protocols are developed. We respectfully request that the PIR/EIS be revised to note the limitations of the cultural resource data, link the protection and restoration of tree islands to the preservation of cultural resources, and include the commitment to develop archaeological monitoring protocols.

G. Existing Conditions of Native Americans

The Seminole Tribe appreciates that the USACE included a section concerning the existing conditions of the Native Americans. However, it is important to note that it may not be appropriate to rely on the Seminole Tribe's website or its Museum website as the source for this section. The Seminole Tribe's website serves several functions which include advertising for is commercial activities. It would be more appropriate to consult with the tribal governments in the development of this section versus taking information from websites.

Also, the Seminole Tribe's websites are not intended to represent the history or culture of the Miccosukee Tribe of Indians. Finally, the section is entitled "Existing Conditions of Native Americans;" however, the only language concerning the existing conditions is one sentence: "Today most Tribal members live within the confines of their reservations located in South Florida." All of the other language summarizes the Seminole Tribe's history and does not provide any information about the Tribe's existing conditions.

We therefore respectfully request the USACE consult with both Tribes and the Independent Native Americans living in the area to more accurately detail the existing conditions for Native Americans.

H. Compliance with Laws

In Section 7 of the Main Report, the USACE discusses how the project is in compliance with various legal obligations. While this section discusses compliance with cultural resource related federal statutes and orders, it is void of any discussion on compliance with the Federal Trust Responsibility. The Federal Trust Responsibility is a legal obligation that requires the USACE's compliance. Therefore, we respectfully request the USACE include a discussion on compliance with the Trust Responsibility regarding cultural resources and environmental resources.

I. Funding

The PIR/EIS does not provide any estimate on the cost of identifying, evaluating and treating cultural resources. Cost is briefly mentioned in a memorandum for the record that is included in the PIR/EIS. The Seminole Tribe requests that the USACE consult with its Tribal Historic Preservation Office on the appropriate cost estimates for cultural resources and that funding for cultural resources (under NHPA and Trust Responsibility) be a specific line item budget for the project.

We are aware that the Corps' Engineering Regulations provide for the cost of "data recovery" for the Federal sponsor to be no more than 1% of the total project cost. We believe that is a fair cost estimate for data recovery. We are also aware that the same Regulations provide that the following activities are not considered "data recovery:" (1) measures for avoidance, minimization and mitigation; and (2) activities to survey, test and evaluate archeological resources. We request further consultation with the Corps to determine what would be a reasonable cost estimate for the activities and measures that are not considered "data recovery."

Appendix B

From: Stephen Walker

Sent: Tuesday, July 16, 2013 5:32 PM To: 'Ramirez, Armando'; 'donna.s.george@usace.army.mil'

Cc: 'Cherise Maples': Michelle Diffenderfer; 'Patty Power'; 'Jim Shore'

Subject: Seminole Tribe Comments to the PIR

Dear Donna and Armando,

Please see attached to this email the Seminole Tribe's handwritten comments to the Draft PIR. The Seminole Tribe of Florida ("Tribe"), appreciates the opportunity to comment on the Draft PIR for the Central Everglades Planning Project ("CEPP") that is being prepared by the South Florida Water Management ("District") and the U.S. Army Corps of Engineers ("Corps"). We appreciate the opportunity to provide our comments on the PIR as a PDT member and look forward to providing more formal comments in the tribal consultation process. The Seminole Tribe remains supportive of the restoration of the Everglades, including the Central and Western Everglades, of which it is a part. The Tribe's remaining concerns regarding CEPP center largely on the Corps' inability to anticipate impacts, positive or negative to the Big Cypress Reservation, Preserve and Addition lands. The Tribe remains concerned that the project does not contemplate or consider the impact on the Western Basins including the Tribal Big Cypress Reservation, Preserve and Addition Lands. The failure to fully assess the impacts to the Western Basins and incorporate benefits for this area into the CEPP planning process continues to be an issue. This inability to model or analyze the Western Basins in connection with CEPP is a fundamental flaw.

We are disappointed to see that the PIR does not include any substantive analysis regarding supplemental water for restoration of tribal natural resources and protection of the Tribe's customary usage rights. We believe that the PIR should have discussed in detail, the Tribe's environmental water request. We recommend that the PIR consider development of alternatives which would direct supplemental water to the Big Cypress Seminole Indian Reservation and the Big Cypress National Preserve and Addition Lands. This is particularly relevant as the Tribe is the local sponsor for a Critical Project in the Western Basins which has the capacity to bring water for the restoration of wetlands on Big Cypress Reservation, Big Cypress National Preserve and Addition Lands. There are greater restoration benefits that could be realized by looking at a larger restoration landscape that are being lost by the segmentation of CEPP. At a

minimum, the Corps should	consider how CEPP an	d the Tribe's Critical	Project could be anal	yzed in a more holistic
manner to better accomplish	the environmental goal	s of CEPP.		
Sincerely,				

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2.0 EXISTING AND FUTURE WITHOUT CONDITIONS

Please open the foldout figure at the end of this section to reference while reading.

This section provides a description of existing and future without (FWO) project conditions within the study and a definition of the FWO project condition and how and why it is developed.

2.1 "WITH" AND "WITHOUT" COMPARISONS

The U.S. Water Resources Council's Principles and Guidelines provide the instructions and rules for Federal water resources planning. One Principles and Guidelines requirement is to evaluate the effects of alternative plans based on a comparison of the most likely future conditions with and without those plans in place. In order to make this type of comparison, descriptions (often called forecasts) must be developed for two different future conditions: the FWO project condition and the future with project condition. Note that the project referred to in this context is any one of the alternative plans that have been considered in the study. The FWO project condition describes what is assumed to be in place if none of the study's alternative plans are implemented. The FWO project condition is the same as the alternative of "no action" that is required to be considered by the Federal regulations implementing the National Environmental Policy Act (NEPA) of 1969. The future with project condition describes what is expected to occur as a result of implementing each alternative plan that is being considered in the study. The differences between the future without project condition and the future with project condition are the effects of the project.

2.2 PLANNING HORIZON

The planning horizon encompasses the Planning Study period, construction period, economic analysis period, and the effective life of the project. The time frame used when forecasting future with and without project conditions while considering impacts of alternative plans is called the period of economic analysis. It may also be referred to as slimbly the period of analysis. It is the period of time over which scientists think extending the analysis of the plan impacts is important. This time period is frequently confused with the planning horizon, which is a longer and more encompassing concept. Figure 2-1 shows that the period of analysis is part of the planning horizon.

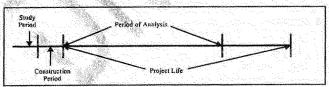


Figure 2-1. Planning Horizon

 The period of analysis for water resources projects usually falls between 50 and 100 years. Even if project structures last more than 100 years, there is too much inherent uncertainty to reliably forecast conditions and impacts beyond 100 years. Although the typical period of analysis for a Civil Works project is 50 years, the Comprehensive Everglades Restoration Plan (CERP) differs because of the programmatic requirement to calculate system-wide benefits. In order to accurately predict system needs and project operations for the entire system, all CERP projects utilize the same ending date for the period of analysis as the most current version of the plan (i.e., the April 1999 "Final Integrated

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Feasibility Report and Programmatic Environmental Impact Statement" used 2050). Although future planning efforts may extend the end date of the period of analysis for projects that will undergo planning at a later date, doing so requires the development of a new system-wide condition or update of the CERP plan for project analysis. At this time, no new system-wide condition has been developed. The following is referenced from CERP Guidance Memorandum Number 2:

"The Plan was based on a 50-year period of analysis and a planning horizon to the year 2050. The period of analysis for calculating the benefits and associated costs for a project will begin the year in which the project will be functional (base year). The end-point for the period of analysis used in a PIR will coincide with the period of analysis end-point used in the most current version of the Plan. This end-point consistency is necessary for the proper calculation of system-wide benefits. The PDT should note that this could result in a period of analysis shorter than 50 years. As periodic CERP updates are completed in accordance with section 385.31(c) of the Programmatic Regulations, the end point for the period of analysis will be revised to reflect the new condition."

The base year for the period of economic analysis for CEPP is year 2022. As such, the period of analysis for the proposed project will be 28 years, ending in the year 2050.

EXISTING AND FORECASTED ECOLOGICAL DESCRIPTION/SETTING

The study area for CEPP encompasses Lake Okeechobee, the Northern Estuaries (St. Lucie River and Indian River Lagoun and the Caloosahatchee River and Estuary), a portion of the Everglades Agricultural Area (EAA), the Water Conservation Areas (WCAs), Everglades National Park (ENP), the Southern Estuaries (Florida Bay and Biscayne Bay), and the Lower East Coast (LEC). The following describes a summary of the existing and FWO project conditions within the study area. Table 2-1 provides a comparison of existing and FWQ project conditions.

Lake Okeechobee is the largest lake in the southeastern United States and is a central part of the south Florida watershed. Lake Okeechobee receives water from a 5,400 square mile watershed that includes four distinct tributary systems. Kissimmee River Valley, Lake Istokpoga-Indian Prairie/Harney Pond, Fisheating Creek, and Taylor Creek/Nubbin Slough. With the exception of Fisheating Creek, all major inflows to Lake Okeechobee are controlled by gravity-fed or pump-driven water control structures. Lake Okeechobee provides water supply to urban areas, agriculture, and downstream estuarine ecosystems during the dry season (November-May) and is used for flood control during the wet season (June-October).

Under pre-drainage conditions, Lake Okeechobee is thought to have been eutrophic (Steinman et al. 2002) and was considerably deeper and larger (spatially) than it is today (Aumen 1995). Outflows from the lake were largely restricted to sheet flow to the south and east. A southern marsh comprised the northern headwater of the Florida Everglades, with the lake often supplying water during periods of high lake levels or as a result of tropical storms. The historic high and low stages for the lake are estimated at approximately 22.5 feet (ft) and 19 ft, respectively (Wright 1911). Historic observations indicate the presence of a substantial sawgrass community located along the western side of the lake suggesting a historic eight month hydroperiod for the area during which soils were saturated with water. Historically, stages within the lake may have risen around two feet above the marsh ground elevation in the wet season and may have fallen up to a foot by the end of the dry season (McVoy et. al. 2005).

Currently, Lake Okeechobee differs from the historic lake in size, range of water depth and connection with other parts of the regional ecosystem. Connecting Lake Okeechobee to the Caloosahatchee River

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123 and construction of the St. Lucie Canal in the early 1900s greatly reduced system-wide water storage 124 and sheet flow to the south during drier periods (NRC 2007). Construction of Herbert Hoover Dike 125 (HHD) around the lake reduced the size of Lake Okeechobee's open-water zone by nearly 30 percent, 126 resulting in considerable reductions in average water levels, and produced a new littoral zone within the 127 dike that is only a fraction of the size of the natural one (Aumen 1995, Havens and Gawlik 2005). Today, 128 the lake has a surface area of 730 square miles and is extremely shallow. The lake has an average depth 129 of 8.1 ft (average stages 14.11 ft NGVD) based on the period of record from 1972 to 2012. Composition 130 of vegetative communities within the remaining littoral zone of the lake has changed. They remain es-131 sential for the ecological health of the Lake but are stressed by extreme high and low lake levels and by 132 the spread of exotics. Lake Okeechobee has also been the recipient of increasingly excessive inputs of 133 nutrients primarily from agricultural activities in the watershed (Flalg and Havens 1995, Havens et al. 134 1996). The sustained influx of nutrients has resulted in dramatic undesirable changes in water quality. 135 In the open water or pelagic region of the lake, large algal blooms have occurred which can result in 136 lower dissolved oxygen levels and fish kills. Vast quantities of soft organic, nutrient-laden sediments 137 have accumulated which are easily re-suspended causing Lake Okeechobee to become turbid and may 138 impact plants, which in turn may affect those organisms that utilize the plant communities as a food 139 source or for habitat. 140

The St. Lucie River, which is part of the Indian River Lagoon ecosystem, is located on the east coast of Florida. The St. Lucie River is approximately 35 miles long and has two major forks, the North and the South, that flow together and then eastward to the Indian River Lagoon and Atlantic Ocean at the St. Lucie Inlet. Historically, the St. Lucie River system was a freshwater stream flowing into the Indian River Lagoon. An inlet was dug in the late 1800s by local residents to provide direct access from the Indian River Lagoon to the Atlantic Ocean, thus changing the St. Lucie from a river to an estuary. The St. Lucie estuary is now connected to Lake Okeechobee by the C-44 canal constructed in the early 1900s. Other major canals constructed in the watershed include the C-23, C-24, and C-25 canals.

The Caloosahatchee River and Estuary is located on the west coast of Florida. The Caloosahatchee River is the major source of freshwater for the Calopsahatchee Estuary. Alterations to the Calopsahatchee River and watershed over the past century have resulted in a major change in freshwater inflow to the estuary. The Caloosahatchee River was originally a shallow, meandering river with headwaters in the proximity of Lake Hicpochee, near Lake Okeechobee. The Caloosahatchee River is now connected to Lake Okeechobee by the C-43 canal constructed in the early 1900s. Today, the river extends from Lake Okeechobee to San Carlos Bay. The river now functions as a primary canal (C-43) that conveys both runoff from the Caloosahatchee watershed and releases from Lake Okeechobee. The canal has undergone numerous alterations including channel enlargement, bank stabilization, and a series of three lock and dam structures, The final downstream structure, W.P. Franklin Lock and Dam (5-79), demarcates the beginning of the estuary and acts as a barrier to salinity and tidal action, which historically extended farther east to near the LaBelle area.

Water management activities and dredging practices within the watersheds of the St. Lucie and Caloosahatchee have resulted in significant alterations in the timing, distribution, volume and quality of water flow into these estuaries. Prior to these impacts, the Northern Estuaries were highly productive systems with an abundance of aquatic plants and animals. These pre-drainage estuarine systems received freshwater inflow primarily from direct rainfall and basin runoff that resulted in low nutrient inputs. These natural patterns of freshwater inflow sustained an ecologically appropriate range of salinity conditions with much fewer salinity extremes then are experienced currently. As a result of channelization (C-43 and C-44) and operation of water control structures (S-79 and S-80) freshwater

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flows into the estuaries tend to be excessive in the wet season and occasionally insufficient in the dry season. The estuaries have lost large acreages of both submerged aquatic vegetation (SAV) and oysters due to large fluctuations in salinity caused by excessive freshwater discharges during wet times and a lack of base flow during extremely dry years. There is also a problem with re-colonization in areas where salinity conditions are favorable due to the lack of suitable substrate needed to support benthic fauna and flora. This sediment problem includes both large areas of thick organic mucky sediment which is especially a problem in the St. Lucie Estuary as well as lack of hard bottom substrate needed for cyster colonization. The natural ability of the estuaries to filter nutrients has also been impacted leading to degraded water quality.

Regarding salinity, damaging flood control discharges from Lake Okeechobee would still occur in the future scenario. These may be partially offset by future optimization of Lake Okeechobee regulation schedules and risk reduction actions related to HHD combined with possible increases in lake storage. The spatial extent of the Northern Estuaries is not expected to significantly decline as a result of land development. Local, state and Federal wetland regulatory programs would likely limit impacts to high value, estuarine wetlands, and compensatory mitigation would be required to offset any loss of wetland function or value that may occur. Any future effects from local stormwater runoff and resulting autrophication would likely be offset by stormwater facility construction and/or Best Management

The remaining portion of the Greater Everglades wetlands includes a mosaic of interconnected freshwater wetlands and estuaries located primarily south of the EAA. A ridge and slough system of patterned, freshwater peat lands extends throughout the WCAs into Shark River Slough in ENP. The parterned, resinvates pear lands extends miougnout the WCAs into shark river Slough in ENP. The ridge and slough wetlands drain into tidal rivers that flow through mangrove estuaries into the Gulf of Mexico. Higher elevation wetlands that flank either side of Shaik River Slough are characterized by marl substrates and exposed limestone bedrock. Those wetland areas located to the east of Shark River Slough include the drainage basin for Taylor Slough, which flows through an estuary of dwarf mangrove forests into northeast Florida Bay. The Everglades marshes merge with the forested wetlands of Big Cypress National Preserve to the west of WCA 3 and ENP.

Declines in ecological function of the Everglades have been well documented. In the pre-drainage system, the inundation pattern supported an expansive system of freshwater marshes including long hydroperiod sawgrass "ridges" Interspersed with open-water "sloughs", higher elevation marl prairies on either side of Shark River Slough, and forested wetlands in the Big Cypress marsh. Rainfall and seasonal discharge from Lake Okeechobee resulted in overland surface flows (sheet flow) which helped to maintain the microtopography, directionality, and spatial extent of ridges and sloughs. Accretion of peat soils typical of the ridge and slough landscape required prolonged flooding, characterized by 10 to 12 month annual hydroperiods, and ground water that rarely dropped more than one foot below ground surface (Tropical BioIndustries 1990). The depths, distributions and duration of surface flooding largely determined the vegetation patterns, as well as the distribution, abundance and seasonal movements, and reproductive dynamics of all of the aquatic and many of the terrestrial animals in the Everglades (Kushlan 1989, Davis and Ogden 1994, Holling et al. 1994, Walters and Gunderson 1994).

Construction of canals and levees by the Central and Southern Florida (C&SF) project resulted in the creation of artificial impoundments and has altered hydroperiods and depths within the study area. For example, northern WCA 3A has been over drained and its natural hydroperiod shortened while the eastern and southern portion of WCA 3A is primarily affected by high water and prolonged periods of inundation. The result has been substantially altered plant community structures, reduced abundance

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and diversity of animals and spread of non-native vegetation. The once vast, naturally connected landscape has been cut into a mosaic of various-sized habitat patches. The ridge and slough habitat has become severely degraded in a number of locations and is being replaced with a landscape more uniform in terms of topography and vegetation with less directionality (NRC 2003, SCT 2003). The canals adjacent to the project area likely serve as an effective barrier to wildlife movement, interfering with or preventing life functions of many native wildlife species.

The remaining portions of the Everglades are stressed and exhibit levels of reduced aquatic function. The overall negative ecological trends in the remaining portions of the Everglades are expected to continue into the future, with additional loss of resources through landscape alterations and degradation of habitat. The effects of the existing infrastructure and future water management practices will continue to cause dryouts in the natural system. The prevalence of extreme fires will persist, destroying peat that is necessary for plant growth and water retention. Soil subsidence will also continue as dryouts, particularly extreme during periods of drought, contribute to further soil oxidation. Additionally, unnatural shorter or longer hydroperiods will likely continue to cause detriment to remaining tree islands. The overall spatial extent of WCA 3A, WCA 3B and ENP is not expected to decline, as these areas are publicly-owned and protected from development; however, current problems plaguing the areas are expected to continue and worsen in some areas. Some minor improvement could occur after remediation of HHD with possible optimization of Lake Okeechobee regulation schedules; however, these steps would only prolong the changes and would not reverse the damaging trends.

2.4 COMPARISON OF EXISTING AND FUTURE WITHOUT PROJECT CONDITIONS

Table 2-1 provides a comparison of existing and FWO project conditions. Existing and FWO project conditions are further documented in Appendix C.1 (Existing and Future Without Project Conditions).

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246 Table 2-1. Existing Condition

CONDITIONS	EXISTING CONDITIONS	FUTURE WITHOUT PROJECT CONDITIONS
Vegetative Communities	Sawgrass prairie, slough vegetation, tree Islands, spike rush and beak rush flats, mangroves, freshwater wetlands, muhly prairie, cypress stands, native dominated forested wetlands, hydric hammocks and exotic-dominated forests.	Possible future development, changes in availability and distribution of freshwater, and further disruption of natural sheet flow from discontinutities in hydrology due to possible construction of levees, roads, canals, etc. could exacerbate the changes occurring in the natural sawgrass, mart prainte, tree island, and mangrone ecotones.
Fish and Wildlife Resources	A great diversity of fish and wildlife species occur throughour south Florida.	Declining environmental trends from existing C&SF drainage structures would continue to cause stress on the ecosystem. Disruption of the natural Worlology has resulted in changes in aquatic vegeration communities, and disruption of aquatic productivity and function. These changes have had repercussions throughout the food web, including wading birds, rapports, anger predatory fithes, reptiles, and manmals. These detrimental effects are filledly for continue.
invasive and Nulsance Species	Existing resources indicate 163 species of non-hative plants. Nave been documented to occur within the project; area; 123 of the plant species are considered invasive or noxious weeds. Existing information indicates 89 non-native animal species have been documented to occur within the project area.	It is expected that anthropogenic effects would continue to negatively impact the troject area. New invasions and the expansion of invasive plant aid animal species currently present would continue in the future. Native nuisance species such as cattail would persist and expand in the project area.
Threatened and Endangered Species	A total of 41 federally protected species occur or have the potential to occur within the project area. Species include but are not limited to the Florida partier, Forida manatee. Everglade snall fire, wood stork, American alligator, American orcodie, and Eastern Indigo snake. Designated critical habitat for the American crocodie, Everglade snall fire, West Indian manatee; smalltorth sawifsk, and Cape Sable seaside sparrow also occurs within the project area. Many state listed species also occur throughout the project study area.	Existing Federal regulations such as the ESA, Marine Mammal Protection Act and rish and Wildlife Coordination Act, along with similar state regulations should be sufficient to preserve the continued existence of most endangened plant and animal species in the proposed project area. Given the expected defens of the system, there would likely be adverse effects on many threatened and endangered species that the solely within the greater Everglades, however, some these effects would potentially be partially militated by decelopment and implementation of species recovery plans and other public and private efforts.
Essentiai Fish Habitat	The project is located in areas designated as EFH for coniss and live bottom habitat, and is habitat for numerous species of fish and invertebrates.	The Magnuson-Stevens Fishery Conservation and Management Act should be utilized by earthfreet or anniation existing fisheries. Current disturbions caused by flood control regulatory freshwater releases would continue to cause harm to estuarine systems in coastal areas. Potential negative effects to active fisheries could accur as a resident of unregulated agricultural runoff and other secondary effects of development.
Climate (including Sea	The project area is characterized by a subtropical climate with distinct wet and dry seasons, high rates of evapotranspiration	Climate change is expected to alter rainfall and evapotranspiration patterns over the next 100 years. ISATE sea level rise moiertims in 2050 for Key

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CONDITIONS	EXISTING CONDITIONS	FUTURE WITHOUT PROJECT CONDITIONS
Figure 18/5/5-	and floods, droughts, and hurricanes. The climate represents a major physical furthing force that sustains the Evergades while creating water supply and flood control issues in the agricultural and urban segments. Of the 53 inches of annual average aria in south Florida, 75 percent falls during the wet season (May – October). Multi-year high and low rainfall periods often alternate on a time scale approximately on the order of decades. Average annual temperature for the southern Everglades is 76°F (24°C).	West, Florids and the broader south Florids area for historic, intermediate and high rates of Nuture sea level rice are 15 inches, 3 linches and +20 linches, 40 linches and +20 linches, 15 linches and +20 linches, 15 linches and +20 linches, 15 linches and linches, 15 linches and linching breiglades, Palm Beach, Delray Beach, and Hollywood Beach) Viginia (Ely) and Flamingo, Everglades, Palm Beach, Delray Beach, and Hollywood Beach) were used to generate a historic record to be used as sea level boundary conditions for the entire simulation period. The historic climate conditions used in the period of record is assumed to represent conditions that are expected to occur in the study area in the future. Some examples of sea sepected to occur in the study area in the future would be continued silvener intrinsion; reduced frehwister supply, reduced flood protection.
Geology and Soils	The regional geology of EAA, WCA 3 and ENP consists of from Youngest to oldest recent fill material, undifferentiated sandy, clay materials, and limestone. Recent fill material consists of poorty graded gravel, sand, silt and minor shell. Layers of peat are embedded within the Cay layers. Mami Limestone represents the upper portion of the Biscame Aquifer. South Florida is underlain by Genozoic age nocks to a depth of approximately 5,000 ft below land surface with various percentages of sand, limestone, cay and dolomite. The mait soils are stylically characterized as silts with high concentrations of lime. Mari soils form under shallow water conditions and are an important constitution of the whole ecosystem, typically having standing water for short periods of ecosystem, typically having standing water for short periods of time and are associated with thick algal mates and periphyton.	Based on current land use indicators, the landscape of south Florida would be developed consistent with County Growth Management Plans. While the majority of development is expected to occur on previously farmed landsorine, wetland soils, located in the area could be altered as a result of potential development. Wetland soils would be drained and/or displaced with fill materials to support the urban development. Existing CBSF draines structures will continue to maintain reduced hydroperiod in many locations, continuing peat soil loss by oxidation and lightning-induced fires.
Municipal and Industrial (M&I) Water Supply/ Demand	Well fields are the primary source of municipal water supplies and are recharged by water from the WCAs amount an amount of a maintain groundwater levels and caral stages in the coastal area for public water supply, agriculture irrigation, and maintain a freehwater head along the lower east coast (LEC) to prevent satiwater intrusion. The South Florida Water Management District (SFWMO) adopted a restricted allocation are mile for the cyerglades and Lowahatche River Water Bodies in 2006. This rule cass consumptive use withdrawals	Increase in population and infrastructure would increase demand with the same fequency of shortages and restrictions, leading to both economic and environmental harm. In the LEC, groundwater from the surficial aquifer system is the predominant source of water for M&I uses. This trend is expected to confluine in the fittine. Since the Restudy, M&I users relained on water from the Floridan aquifer, reuse and other sources has grown significantly. Use of these alternative sources to meet a portion (10-15%) of future demands will continue in the future. Economic briceasts have future demands will continue in the future. Economic briceasts have thanced since the Restudy, decreasing the pooluation professions.

Section 2

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Section 2

FUTURE WITHOUT PROJECT

CONDITIONS	EXISTING CONDITIONS	FUTURE WITHOUT PROJECT CONDITIONS
Economy	Generally, a strong wholesale and retail trade, government and service sectors characterize Ebrida's economy. Compared to the national economy, the manufacturing sector has played less of a role in Forida, but high technology manufacturing has begun to emerge as a significant sector over the last decade. Employment in the LEC when compared to employment in the rest of Florida and the region shows a greater emplaiss toward service or tourism related industries.	Future economic growth within the study area is expected to remain consistent with the population growth of the area, while maintaining a mix of service, retail, and administrative lots. Also to be expected is a stiff of income and employment from Miami-Dade County to the surrounding counties of Broward and Palm Beach.
Agriculture	Agricultural production is an important sector of the states economy. Despite continued urban expansion, agriculture throughout south forida remains a valuable industry and employer. South Forida is a major source of vegetables, tropical fruits, sugar, and other produce year round.	Naticulture is considered fully developed in most areas of south Florida, where permitted acres and cropping practices are not projected to change significantly. Sugarcane, other field crops, sod, and greenhouse/hursery are expected to increase slightly over the planning horizon, while other fruits and vegetables, melons, and bernies are expected to fall silentiv
Study Area Land Use	The existing use of land within the study area varies widely from agriculture to high-density multi-family and industrial urban uses to natural areas for conservation. A large portion of south Florida remains natural, although much of it is disturbed land.	
Recreation	Many areas throughout south Florida are used for recreational activities including, birding, fishing, hunting, kayaking, canceing, hiking, and air-boating.	Many areas throughout south Florida are used for recreational. All of the areas throughout south Florida are expected to have significant activities. Including birding, fishing, hunting, kayaking, increases in demands for selected recreation activities with a commensurate need to increase development of the region's recreational resources and facilities. Ecosystems support a significant amount of outdoor recreation in the LEC of Florida. A significant amount of outdoor recreation in the LEC of Florida. A significant portion of the expenditures comes from touriss. Recreational activities that are projected to have a lack of supply as a result of increased demands include hiking, freshwater fishing, and biocycle riding.
Noise	Within natural areas, external sources of noise are limited. Existing sources of noise outside of the rural communities are limited to vehicular traffic, agricultural vehicles, etc.	Noise impacts will change in areas where land use is projected to change from agriculture to residential/commercial.
Aesthetics,	Natural areas within south Florida are comprised of a variety of wetlands, sawgass markets, wet prairies, and tree islands. The land is very flat, with slight topographic rises on some tree islands. Much of the visible topographic features are a result of human development, such as canals and levees. Views of much of the area offer pleasant perspectives of the Everglades and tree islands.	Urbanization is expected to occur in the future, resulting in a potential loss of opportunity to aesthetically view open agricultural and natural areas due to build-out.

STRUCTURAL AND OPERATIONAL ASSUMPTIONS IN THE FUTURE WITHOUT PROJECT

CONDITION

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The FWO project condition for CEPP assumes the construction and implementation of currently authorized CERP and non-CERP projects, and other Federal, state or local projects constructed or approved under existing governmental authorities that occur in the CEPP study area. Construction has begun on the first generation of CERP projects already authorized by Congress. These include the Indian River Lagoon-South Project, the Picayune Strand Restoration Project, and the Site 1 Impoundment Project. Second generation of CERP projects for Congressional authorization includes the Biscayne Bay Coastal Wetlands Project, Broward County Water Preserve Areas Project, the Caloosahatchee River (C-43) West Basin Storage Reservoir, and the C-111 Spreader Canal Western Project. Non-CERP projects included within the FWO project condition consist of the SFWMD Restoration Strategies, C&SF Canal-51 West End Flood Control Project, the C-111 South Dade Project, the Kissimmee River Restoration Project, Modified Water Deliveries to ENP (MWD) Project, and the Department of Interior (DOI) Tamiami Trail Modifications Next Steps Project. Table 2-2 summarizes the status of non-CERP projects, CERP projects and operational plans assumed to differ between the existing condition and FWO project condition. Refer to Sections 2.5.1 through 2.5.15 for further information on how project features in Table 2-2 were represented in the hydrologic model simulation of the FWO project condition, where applicable.

Table 2-2. Status of Non-CERP Projects, CERP Projects, and Operations Plan for Existing and Future Without Project Conditions

CATEGORY	EXISTING CONDITION	FUTURE WITHOUT PROJECT CONDITION
Status of Non-CERP Projects	Construction complete and features operated: Modified Water Deliveries to ENP Project (MWD), including the S-355A and S-355B gated spillways, 4-mile degrade of L-67 Extension Levee, 8:5 Square Mile Area Flood Mitigation Project	Construction completed and features operated: C-111 South Dade (Contracts 8 and 9); C&SF C-51 West End Flood Control Project; Kissimmee River Restoration; SFWMO Restoration Strategies (Central Flow Path features). Construction completed: MWD, including existing condition components plus Tamiami Trail Modifications (1, mile eastern bridge); DOI Tamiami Trail Modifications Next Steps Project (5.5 miles of additional bridges). Seepage Barrier Near the L-31 N Levee (Miami-Dade Limestone Products Association)
Status of CERP Projects	No completed projects	Construction completed and features operated: Indian River Lagoon-South Project; Picayune Strand Restoration Project; Site 1 Impoundment Project; Biscayne Bay Coastal Wetlands Project; Broward County Water Preserve Areas Project; Caloosahatchee River (C-43) West Basin Storage Reservoir; C-111 Spreader Canal Western Project.
Operations Plan for WCA 3A, ENP and the SDCS	Interim Operational Plan (IOP (2002, 2006); L-29 Canal maximum operational stage limit: 7.5 feet (ft) National Geodetic Vertical Datum (NGVD); G-3273 constraint: 6.8 ft NGVD	ERTP (2012); L-29 Canal maximum operational stage limit: 7.5 ft NGVD; G-3273 constraint: 6.8 ft NGVD

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2.5.1 Lake Okeechobee Operations

The FWO project conditions assumption for the operation of Lake Okeechobee is Lake Okeechobee Regulation Schedule (LORS) 2008 (USACE 2007). The CEPP team recognizes that when it was approved, LORS 2008 was identified as an interim schedule and that a subsequent schedule would be considered

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272 after the modifications to HHD were completed. Until a new operating schedule is developed under a 273 different, future study, LORS 2008 is the best estimate for operations.

2.5.2 Herbert Hoover Dike

The HHD surrounds Lake Okeechobee, which is 720 square miles in size. The HHD was first authorized in 1930 and built by hydraulic dredge and fill methods. HHD has 143 miles of embankment with 5 spillway inlets, 5 spillway outlets, 32 Federal culverts, 9 navigation locks and 9 pump stations. There are structural integrity concerns with the embankment and internal culvert structures that resulted in a Dam Safety Action Classification (DSAC) risk rating of Level 1. DSAC Level 1 represents the highest U.S. Army Corps of Engineers (USACE) dam risk of failure rating and requires remedial action. The Major Rehabilitation Report (MRR) from 2000 divided the 143 mile dike into eight (8) Reaches with the initial focus on Reach 1. The current approved and planned remediation measures will address the highest points of potential failure in the system based on known areas of concern. These efforts are intended to lower the DSAC rating from Level 1. The CEPP FWO project condition will assume the planned remediation of HHD will lower the DSAC risk rating and be completed by 2022. The following text provides the basis for this assumption.

Historically, the majority of embankment and foundation issues have occurred in Reaches 1, 2, and 3 related to one of the following primary potential failure modes: internal erosion through the embankment and internal erosion through the foundation. The additional failure modes associated with the culvert structures are: internal erosion along the conduits and internal erosion into the conduits.

Current approved HHD remediation measures consist of cutoff wall in Reach 1: cutoff wall task orders 1 — 9 are scheduled for completion in 2013, and 32 culvert replacements or removal around the lake are scheduled for completion in 2018. Planned remediation measures consist of cutoff wall and/or a seepage management system in Reaches 2 and 3. These actions are scheduled for completion in 2022. These remediation measures will not resolve all issues with the dam, nor will all current design criteria be met. To assess other issues and address future modifications with HHD, a comprehensive potential failure mode analysis and risk assessment is being performed and will be included in the ongoing Dam Safety Modification Report (DSMR). This report is scheduled for completion/approval in 2014.

 Prior to LORS 2008, Lake Okeechobee operated under the Water Supply and Environmental Regulation Schedule (WSE). The LORS study was initiated because of adverse environmental impacts that WSE had on the lake ecology. Dam safety was later added as a performance criterion since lowering of the lake, as LORS was pursuing, is one of the basic Interim Risk Reduction Measures implemented for deficient dams until appropriate remediation is effectuated. The WSE held Lake Okeechobee stages approximately 1.0 – 1.5 feet higher than LORS under wet conditions. Studies for the remediation of HHO are based on the WSE, which was used as the basis for the development of the Standard Project (Flood (SPF). The SPF is the design condition used for the remediation to address internal erosion failure modes.

2.5.3 SFWMD Restoration Strategies Project

The SFWMD is required to meet a numeric discharge limit, referred to as the WQBEL, which is contained in the National Pollutant Discharge Elimination System (NPDES) permit for discharges from the stormwater treatment areas (STAs) into the Everglades Protection Area (EPA). The WQBEL was developed to assure that such discharges do not cause or contribute to exceedances of the 10 parts per billion (ppb) total phosphorus (TP) criterion (expressed as a long-term geometric mean (LTGMI) established under 62-302.540, Florida Administrative Code (F.A.C.). The TP criterion is measured at a network of stations

across the EPA marsh and is intended to prevent imbalances of aquatic flora and fauna. The WQBEL is
 measured at the discharge points from each STA and requires that the total phosphorus concentration
 in STA discharges shall not exceed: 1) 13 ppb as an annual flow weighted mean in more than three out
 of five water years on a rolling basis; and 2) 19 ppb as an annual flow-weighted mean in any water year.
 Excess phosphorus discharged into the EPA has caused ecological impacts within the Everglades.

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To address water quality concerns associated with existing flows to the EPA, the SFWMD, FDEP, and USEPA engaged in technical discussions starting in 2010. The primary objectives were to establish a WQBEL that would achieve compliance with the State of Florida's numeric phosphorus criterion in the EPA and to identify a suite of additional water quality projects to work in conjunction with the existing Everglades STAs to meet the WQBEL. Based on this collaborative effort, a suite of projects has been identified that would achieve the WQBEL. The Restoration Strategies Regional Water Quality Preliminary Plan (SFWMD 2012) describes those resulting projects and the evaluation tools and assumptions that were utilized in the technical evaluation. The projects have been divided into three flow paths (Eastern, Central and Western), which are delineated by the source basins that are tributary to the existing Everglades STAs. The identified projects primarily consist of FEBs, STA expansions, and associated infrastructure and conveyance improvements. The primary purpose of FEBs is to attenuate peak stormwater flows prior to delivery to STAs and provide dry season benefits, while the primary purpose of STAs is to utilize biological processes to reduce phosphorus concentrations in order to achieve the WQBEL. The Eastern Flow Path contains STA-1E and STA-1W. The additional water quality projects for this flow path include an FEB in the S-SA Basin with approximately 45,000 acre-feet (ac-ft) of storage and an STA expansion of approximately 6,500 acres (5,900 acres of effective treatment area) that will operate in conjunction with STA-1W. The Central Flow Path contains STA-2, Compartment B and STA-3/4. The additional project is an FEB with approximately 54,000 ac-ft of storage that will attenuate peak flows to STA-3/4, and STA-2 and Compartment B. The Western Flow Path contains STA-5, Compartment C and STA-6. An FEB with approximately 11,000 ac-ft of storage and approximately 800 acres of effective treatment area (via internal earthwork) within STA-5 are being added to the Western Flow Path. Based on the CEPP project objectives, only the Central Flow Path features are included in the CEPP modeling representation of the FWO project conditions. The FEB located within the Central Flow Path will be located on the A-1 Talisman site.

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2.5.4 Caloosahatchee River (C-43) West Basin Storage Reservoir Project

The Caloosahatchee River (C-43) West Basin Storage Reservoir Project is a CERP project located within Hendry County (USACE 2010). The purpose of the project is to improve the timing, quantity, and quality of freshwater flows to the Caloosahatchee River and Estuary. The project provides approximately 170,000 ac-ft of above-ground storage volume in a two-cell reservoir. Major features of the project include external and internal embankments, and environmentally responsible design features to provide fish and wildlife habitat such as littoral areas in the perimeter canal and deep water refugia within the reservoir. The project contributes toward the restoration of ecosystem function in the Caloosahatchee Estuary by maintaining a desirable minimum flow of freshwater to the estuary during the dry season. The project also contributes to a reduction in the number and severity of events where harmful amounts of freshwater from basin runoff and Lake Okeechobee are discharged to the estuary. These two primary functions help to moderate unnatural changes in salinity that are detrimental to estuarine communities.

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2.5.5 Indian River Lagoon-South Project

The Indian-River Lagoon-South Project is a CERP Project that is located within Martin and St. Lucie Counties (USACE 2004a). The purpose of the project is to improve surface-water management in the C-

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23/C-24, C-25, and C-44 basins for habitat improvement in the St. Lucie River Estuary and southern portions of the Indian River Lagoon. Project features include the construction and operation of four above ground reservoirs to capture water from the C-44, C-23, C-24, and C-25 canals for increased storage (130,000 acre-ft), the construction and operation of four STAs to reduce sediment, phosphorous, and nitrogen to the estuary and lagoon, the restoration of over 90,000 acres of upland and wetland habitat, the redirection of water from the C-23/24 basin to the north fork of the St. Lucie River to attenuate freshwater flows to the estuary, muck removal from the north and south forks of the St. Lucie River and middle estuary. The project is expected to provide significant water-quality improvement benefits to both the St. Lucie River and Estuary and Indian River Lagoon by reducing the load of nutrients, pesticides, and suspended materials from basin runoffs.

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2.5.6 Operations at Southern WCA 3A, ENP, and the South Dade Conveyance System

The current approved operational plan for southern WCA 3A, ENP, and the SDCS as of October 2012 is known as the ERTP. It superseded the 2006 Interim Operational Plan for Protection of the Cape Sable seaside sparrow (IOP) and is intended to be a transitional plan to be used until completion of the final operational plan that was to be developed as part of the MWD and Canal 111 South Dade Projects. The final operational plan for these two projects has not yet been developed. ICP was the governing regulation schedule for the project area at the start of the CEPP planning process. In addition, existing hydrologic conditions within the project area are a result of IOP operations from 2002 to 2012. Therefore, for planning purposes, the CEPP FWO project condition includes ERTP as the operational plan. The ERTP contains an operational Egyptraint at gage 6-3273 of 6.8 ft NGVD and a maximum operational stage limit of 7.5 ft NGVD in the L 29-barrow conal. The CEPP alternatives will consider and potentially include higher stages in the L 29 barrow canal. The 2006 interim Operational Plan for Protection of the Cape Sable seaside sparrow (IOP) was the governing regulation schedule for the project area at the start of the CEPP planning process. In addition, existing hydrologic conditions within the project area are a result of IOP operations from 2002 to 2012. Therefore, for planning purposes, the existing condition includes IOP as the operational plan. The current approved operational plan for southern WCA 3A, ENP, and the SDCS as of October 2012 is known as the Everglades Restoration Transition Plan (ERTP). It supersededithe 2006 IOP and is intended to be a transitional plan to be used until completion of the final operational plan that was to be developed as part of the MWD and Canal 111 South Dade Projects. The final operational plan for these two projects has not yet been developed. Therefore, for planning purposes, the CEPP FWO project condition includes ERTP as the operational plan. The ERTP contains an operational constraint at gage G-3273 of 6.8 ft NGVD and a maximum operational stage limit of 7.5 ft NGVD in the L-29 borrow canal. The CEPP alternatives will consider and potentially include higher stages in the L-29 borrow canal.

2.5.7 Modified Water Deliveries Project

The 1989 Everglades National Park Protection and Expansion Act (Public Law 101-299) directed the Secretary of the Army, in consultation with the Secretary of the Interior, to construct modifications to the C&SF to improve water deliveries to ENP. Construction of modifications to the C&SF project as authorized in the 1989 Act are justified by the environmental benefits to be derived by the Everglades ecosystem in general and by the Park in particular and shall not require further economic justification. The goal of the MWD Project is to improve water deliveries into ENP and, to the extent practicable, take steps to restore the natural hydrologic conditions within ENP.

The following MWD features have been constructed or are in progress.

- 1. Conveyance and Seepage Control Features
 - a. Spillway Structure 5-355 A and B in the L-29 Levee complete;

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b. 5-333 and S-334 Modifications - complete;

- c. Tigertail Camp Raising complete;
- d. Osceola Camp Elevation Evaluation complete;
- e. S-331 Command and Control complete;
- Pump Station 5-356 complete (temporary pump station), no operational permit;
- g. Degradation of 9 miles of the L-67 Extension Canal and Levee 4 miles complete.
- 2. Flood Mitigation for 8.5 Square Mile Area
 - Perimeter Levee complete;
 - Seepage Collector Canal complete:
 - Pump Station S-357 complete;
 - d. Detention Area complete;
 - Seepage Collection Addition design in progress.
- 3. Tamiami Trail Modifications
 - One Mile Bridge Construction in progress;
 - Road Reconstruction and Resurfacing Construction (to accommodate maximum stages in the L-29 Canal up to 8.5 feet NGVD) - in progress.
- 4. Project Implementation Support
 - a. Monitoring and Mitigation ongoing;
 - b. Technical and Project Management Support ongoing;
 - c. G-3273 Relaxation and S-356 Pump Station Test (1" year) in progress.

For planning purposes, the MWD Project will be assumed to be complete upon completion of those features currently under construction. In the absence of a final operational plan for the MWD Project, the modeling of operations for the GEPP FWO project condition assumes the L-29 borrow canal maximum operational limit at 7.5 ft NGVD as per 2012 ERTP operations. The one mile MWD eastern MWO Tamiami Trail bridge is represented in the RSMGL simulation of the FWO condition.

2.5.8 Site 1 Impoundment Project

The purpose of the Site 1 Impoundment Project is to capture and store excess surface water runoff from the Hillsboro watershed as well as releases from the Arthur R. Marshall Loxahatchee National Wildlife Refuge (LNWR) and Lake Okeechobee (USACE 2006). Located in the Hillsboro Canal Basin in southern Palm Beach County, the project will supplement water deliveries to the Hillsboro Canal by capturing and storing excess water currently discharged to the Atlantic Coastal Waterway. These supplemental deliveries will reduce demands on LNWR. Project features include a 1,660 ac above ground storage reservoir, an inflow pump station, discharge gated culvert, emergency overflow spillway, and a seepage control canal with associated features. Project features will also provide groundwater recharge, help reduce seepage from adjacent natural areas and prevent saftwater intrusion by releasing impounded water back to the Hillsboro Canal when conditions dictate.

2.5.9 Picavune Strand Restoration Project

The Picayune Strand Restoration Project involves the restoration of natural water flow across 85 square miles in western Collier County that were drained in the early 1960s in anticipation of extensive residential development (USACE 2004b). This subsequent development dramatically altered the natural landscape, changing a healthy wetland ecosystem into a distressed environment. The Picayune Strand Restoration Project will restore wetlands in Picayune Strand (Southern Golden Gate Estates) and in

463 adjacent public lands by reducing over-drainage, while restoring a natural and beneficial sheetflow of 464 water to the Ten Thousand Islands National Wildlife Refuge. Project features include 83 plugs in four 465 canals, 227 miles of road removal, and the addition of pump stations (3) and spreader swales to aid in 466 rehydration of the wetlands. The Picayune Strand Restoration Project is located west of the RSMGL. 467 hydrologic model domain. 468

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2.5.10 Broward County Water Preserve Areas Project

The Broward County Water Preserve Areas (WPA) Project is a CERP project that is located within the study area of CEPP (USACE 2012b). Three impoundment areas will be constructed to reduce seepage, provide groundwater recharge, provide water supply to urban areas, and help prevent saltwater intrusion. Pollution load reduction targets necessary to protect water quality within the receiving waters are included in the design. The three project features consist of the WCA 3A/3B Levee Seepage Management system designed to reduce seepage by allowing higher water levels within the L-33 and L-37 borrow canals; the C-11 Impoundment in western Broward County, which will collect direct runoff from the western C-11 drainage basin, thereby reducing the S-9 pumping into WCA 3A and the C-9 Impoundment, located in the western C-9 Basin, designed to store runoff from the C-9 drainage basin and divert water from the western C-11 Basin and aid to reduce seepage. Once constructed, the Broward County WPA will reduce storm water deliveries to WCA 3, thereby increasing the overall quality of water available for delivery to ENP.

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2.5.11 Tamiami Trail Modifications: Next Steps Project

The DOI, through the National Park Service (NPS) and ENP, completed a study to evaluate the feasibility of additional Tamiami Trail bridge length, beyond that to be constructed pursuant to the MWD Project to restore more natural water flow to ENP and Florida Bay and for the purpose of restoring habitat within ENP (NPS 2010). This study was authorized by the 2009 Omnibus Appropriations Act passed by Congress on March 10, 2009. The Tamiami Trail Modifications Next Steps (TTNS) approved plan called for 5.5 miles of bridging, which would be in addition to the 1-mile bridge authorized by the MWD Project and currently under construction. The remaining unbridged sections of roadway would be elevated to allow a design high water stage of 9.7 ft NGVD in the L-29 borrow canal. This road height is expected to accommodate the maximum potential range of future stage increases envisioned by CERP without damage to the road. The project was authorized by Congress in the Consolidated Appropriations Act, 2012. The DOI is preparing an implementation strategy.

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The FWO project condition assumes that additional bridging and road elevation will be accomplished under DOI authority. Since a final operational plan for the MWD Project has not been completed, for planning purposes, the CEPP FWO project condition will assume the 7.5 feet NGVD operational constraint in the L-29 borrow canal that is associated with ERTP will remain in place. CEPP alternatives will identify if and how much bridging and roadway raising are needed to convey CEPP flows. No additional Tamiami Trail bridges, corresponding to the TTNS project features, were represented in the RSMGL simulation of the CEPP FWO condition due to uncertainty regarding the implementation sequence and schedule for the TTNS bridges.

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2.5.12 Seepage Barrier near the L-31N Levee

In 2009, the Miami-Dade Limestone Products Association constructed a 1,000 foot long, 18 foot deep slurry wall to reduce seepage between ENP and rock mine properties to the east of ENP. In July 2012, the association completed construction of a 2 mile long, 35 foot deep seepage wall in this same location south of Tamiami Trail. It is unknown whether the extent to which the 2 mile long, 35 foot deep seepage wall will reduce seepage to the east, or whether the association will construct an additional 00723314-1

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wall if this new test is ineffective. The association also has an "option" to construct an additional 5 miles of seepage wall south of the 2-mile seepage wall if permitted. Since the capability of the seepage wall to mitigate seepage losses is under ongoing investigation, CEPP will not include any length and depth of seepage wall in the FWO project assumptions. The CEPP alternative plans will have to identify and develop the total amount and types of seepage management needed for the volume and distribution of water that the plans would deliver from WCA 3B and/or ENP. Consistent with these assumptions, the 2 mile seepage wall is not represented in the RSMGL simulation of the FWO project condition.

2.5.13 Biscayne Bay Coastal Wetlands Project

The purposes of the Biscavne Bay Coastal Wetlands (BBCW) Project is to rehydrate wetlands and reduce point source discharge, improve water quality and provide more natural timing and quantity of water to Biscayne Bay (USACE 2012b). The proposed project would replace lost overland flow and partially compensate for the reduction in groundwater seepage by redistributing available surface water entering the area from regional canals. The BBCW Project features were not explicitly included in the CEPP modeling representation of the FWO since these features along the coast in Miami-Dade County were not considered significant for CEPP formulation.

2.5.14 C-111 Spreader Canal Western Project

The C-111 Spreader Canal (C-111 SC) Western Project is a CERP project that is located within the study area of CEPP (USACE 2009). It is intended to improve quantity, timing and distribution of water delivered to Florida Bay via Taylor Slough, improve hydroperiods and hydropatterns in the Southern Glades and Model Lands to restore historic vegetation patterns; and to return coastal salinities to historical recorded conditions though the redistribution of water that is currently discharged to tide. These objectives will be realized through the creation of a hydrologic ridge between Taylor Slough and the C-111 Canal, to reduce seepage loss from Taylor Slough and its headwaters. SFWMD has implemented the features of this project. Information gained from the C-111 SC Western Project will be used for the planning and design of a spreader canal system to replace the existing C-111 Canal (C-111 SC Eastern Project). The Record of Decision was signed on July 19, 2012 and has been transmitted to Congress for authorization.

2.5.15 C-111 South Dade Project

The C-111 South Dade County 1994 Integrated General Reevaluation Report and Environmental Impact Statement (EIS) was published in May 1994 (USACE 1994). This report described a conceptual plan for five pump stations and levee-bounded retention/detention areas to be built west of the L-31N Canal, between the proposed S-3328 and S-332D pump stations, to control seepage out of ENP while providing flood mitigation to agricultural lands east of C-111 Canal. The original and current configuration of these structural features is further discussed in the description of IOP Alternative 7R, within the 2006 IOP Final Supplemental EIS (USACE 2006). Operational guidance for the new S-332DX1 structure was included in the ERTP Final EIS (USACE 2012c).

For the FWO project condition, the USACE assumed the C-111 South Dade Project will be completed with Contract 8 (C-111 North Detention Area) and Contract 9 (L-31W canal plugs). The FWO project operations of the C-111 South Dade project features are assumed consistent with ERTP. The FWO project condition assumes no inflows to the C-111 North Detention Area from the 8.5 Square Mile Area detention Area, consistent with MWD 2011 8.5 Square Mile Area Interim Operating Criteria.

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556	2.6 NATIVE AMERICANS			Mary wife	Format
557	Lands leased to the Miccosukee Tribe of Indians of Fl	orida are currently ex	xperiencing long	term high	Number
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The Seminolo Tribe has customary usage
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4.0 EVALUTION AND COMPARISON OF ALTERNATIVE PLANS

Please open the foldout figure at the end of this section to reference while reading.

4.1 PLANNING PRINCIPLES AND GUIDELINES EVALUATION CRITERIA

- · Principles and Guidelines criteria:
 - Effectiveness: Extent to which an alternative plan alleviates the specified problems and achieves the specified opportunities (Evaluated in Section 4.1.1)
 - Acceptability: The workability and viability of the alternative plan with respect to acceptance by state and local entities and the public and compatibility with existing laws, regulations, and public policies. (Evaluated in Section 4.1.2)
 - Completeness: The extent to which a given alternative plan provides and accounts for all necessary investments or other actions to ensure the realization of the planned effects. (Evaluated in Section 4.1.3)
 - Efficiency: A Cost Effectiveness and Incremental Cost Analysis (CE/ICA) Identified plans producing maximal environmental benefits compared to costs (Evaluated in Section 4.2)

The extent to which an alternative plan alleviates the specified problems and achieves the specified opportunities for CEPP is a measure of effectiveness. Section 1 of this report describes the problems and opportunities throughout the diverse project area, and includes discussion of how the problems and opportunities drove the development of the planning objectives. Since the problems are closely linked to the objectives, the effectiveness is addressed by how well the alternatives achieve the planning objectives. Each of the objectives is addressed Table 4-11. Additional details on hydrologic and ecological performance can be found in Section 5.1, Appendix C (Environmental Information), and Appendix G (Environmental Benefits Model). Additional details on hydrologic performance can be found in Appendix A (Engineering).

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Table 4-1. Summary Comparison of Effectiveness of Meeting the Planning Objectives of CEPP.

FWO	Alt 1 (5-333)	Alt 2 (g	avity)	Alt 3	(pumps)	Alt 4	(flowway)
Objective: Restore	seasonal hydroperiods and free	shwater dis	tribution to	suppo	ort a natural	mosaic	of wetland
and upland habitat	in the Everglades System						
Ridge and slough is	the most common habitat in	the Great	er Everglac	les. T	he Slough Vi	egetatio	n performance
measure provides a	measure of the suitability of hy	drologic co	nditions fo	r two k	ey species o	slough	vegetation.
Parameters below the continued and the	the first of the same and the same of the same of the			20 年,中国			. King Dangaga an

All alternatives improve conditions for slough vegetation. They maximize continuous hydroperiods and minimize dry downs and improve average wet season and dry season depths. Performance between alternatives varies by 1-4 percent, depending on location. All alternatives are closest to the targets in southern WCA 3A and ENP.

(Performance Measure for Slough Vegetation, 0-100 scale, target is 100) 61 to 66 north; 33 to 37 in zones north of I-75; 64 to 68 north 40 to 79 in zones south of I-75 60 to 81 south 61 to 66 north; 61 to 67 north 60 to 81 south 58 to 83 south 62 to 83 south

Objective: Improve sheetflow patterns and surface water depths/durations in the Everglades in order to reduce soil subsidence, frequency of damaging peat fires, decline of tree islands, and salt water intrusion.

The intensity of drying events that occurred in the pre-drained Everglades ridge and slough landscape produced a balance between organic soil accretion during wet periods and loss during droughts and fires. The Central and Southern Florida (C&SF) Project substantially altered hydrology and shifted the balance toward less soil accretion and more oxidation and fire.

All alternatives reduce the risk of soil oxidation and peat fires relative to the FWO. All alternatives perform similar to each other. Alternatives increase the amount of time that water levels are above the ground surface and do this for a larger portion of the project area relative to the FWO. Alternatives reduce soil oxidation and fire more in the
 Northern zones than in the southern zones. (Performance measure for soil oxidation, 0-100 scale, target is 100)

 26 to 60 in zones north of i-75;
 85 to 100 north;
 82 to 100 north;
 81 to 100 north;
 83 to 100 north;

 51 to 71 in zones south of i-75.
 77 to 93 south
 77 to 95 south
 84 to 96 south
 86 to 100 south

Objective: Reduce high volume discharges from Lake Okeechobee to improve the quality of oyster and SAV

habitat in the Northern Estuaries (St Lucie Estuary (SLE) and Caloosahatchee (Cal) Estuary)

High volume discharges from Lake Okeechobee can result in rapid decreases in salinity. Sustained exposure to reduced salinity produces adverse effects on oyster reefs, juvenile marine fish, sea grass beds, and other submerged aquatic vegetation in the Northern Estuaries (St Lucie Estuary and Caloosahatchee Estuary). Reducing the frequency and magnitude of the high volume discharges improves conditions in these estuaries.

All alternatives reduce high volume discharges to the Northern Estuarles. Since they are dependent on the operations of the Flow Equalization Basin, STA 3/4, and Lake Okeechobee, and all alternatives contain the same features and operations. The CEPP alternatives reduce the moderately high take inflow and estuary discharge events by diverting flow to the south, to the storage and treatment facilities, and reducing flows that would have otherwise gone to the estuaries. The largest lake inflow and estuary discharge events far exceed the combined available storage and treatment capacity in the A1 and A2 FEBs, STA 3/4, and STA 2, and as a result, the CEPP alternatives do not substantially reduce the frequency of extreme high flows to the Northern Estuaries. (Number of months of high flow and of extreme high flows, fewer is better)

High flows: SLE - 46 months; High flows: SLE - 34 months: Cal- 81 months Cal- 68 months: Extreme high flows: Extreme high flows: SLE - 26 months; SLE - 24 months: Cal - 31 months Cal - 33 months Objective: Reduce water loss (Seepage) out of the natural system to promote appropriate dry season recession rates for wildlife utilization

Without management of seepage, a large portion of the new water delivered to the system would seep across and under the eastern perimeter levees, reducing the desired hydroperiod and water depth changes that produce the ecosystem benefits of the project alternatives. Allowing more seepage than existing and FWO conditions may also

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FWO Alt 1 (5-333) Alt 2 (gravity) Alt 3 (pumps) Alt 4 (flowway) cause an increased risk of flooding in the urban and agricultural areas east of the perimeter levee. Allowing less seepage than existing and future without project conditions may reduce water supply availability for municipal and agricultural uses and Biscayne Bay.

All alternatives maintain seepage rates to the east that are equivalent to or less than the FWO. Thus, the alternatives retain the existing and new water within the natural system. However, some of the alternatives allow less water to enter the urban areas to the east than FWO, potentially adversely affecting water supply. The alternatives require minor modification to allow more water to move eastward so that water supply is not reduced.

Any alternative identified as the TSP will undergo revisions to reduce seepage management infrastructure and consequently costs to maintain water supply integrity of the Lower East Coast.

No change in seepage | All alternatives allow less seepage than the FWC

Objective: Restore more natural water level responses to rainfall to promote plant and animal diversity and habitat function.

The target dry season recession rate in WCA 3A is approximately 0.05 feet per week from January 1 to June 1 for onset of the wet season). This equates to a net stage difference of approximately 1.0 feet. Recession rates that are too slow prevent the gradual concentration of small fish and amphibian prey species into smaller, higher concentration areas where wading birds and other predators can catch them - the fish and other prey stay widely dispersed. Recession rates that are too fast lead to dryouts before the end of the dry season and eliminate the small fish and amphiblans prey base. Rapid recession rates also may harm vegetation communities which are critical to nesting success of several bird species.

All alternatives performed better than FWO, with more weeks in the target and moderate recession rate zones, and fewer weeks in the lowest rone (recession rate too fast or too slow). All alternatives performed similar to each other. (Dry season recession rate in WCA 3A (strive for 0.05 feet/week from Ion 1 to Jun 1))

142 of 880 weeks 144 of 880 weeks within 0.05 of 115 of 880 weeks within 0.05 143 of 880 weeks 148 of 880 weeks within 0.05 of of target rate within 0.05 of within 0.05 of target target rate target rate target rate rate

Objective: Increase availability of water supply.

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All alternatives performed the same for the Lake Okeechobee Service Area, since they depend on the operations of the Flowage Equalization Basin, STA 3/4, and Lake Okeechobee, and all alternatives contain the same operations for these features. The alternatives had less water supply cutback volumes than the FWO during 7 of the 8 years with the highest water supply cutback volumes (excluding 1981). This means that the alternatives were better than the FWO at meeting water supply demands when water supply was most limited.

Alternatives have lower cutback volumes than FWO for 7 of the 8 years with

largest cutbacks

4.1.2 Acceptability

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Acceptability is the workability and viability of the alternative plan with respect to acceptance by state and local entities and the public and compatibility with existing laws, regulations, and public policies. Acceptability was evaluated and compared for stakeholder concern, and policy and legal issues.

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Comment [dec1]: This statement is incor-rect. Seepage varies widely across the alter-natives, and there is also a wide range of spatial variability of seepage. Not seepage is reduced by seepage return pumps.

Kevin/Brad - I would like to further dis with you how this evaluation was developed, so we can agree how to best correct.

Comment [dec2]: See comment above

Comment [dec3]: Is this objective only evaluated based on recession rates. Recommend uated based on recession rates. Recommend additional consideration of the increased spatial extent of sheetflow and hydrologic con nectivity (etc.) in avaluation of this objective

Comment [baf4]: need to finish this descrip-

Do we add something for LEC WS?

4.1.2.1 Stakeholder Concern

The following section includes a description of specific concerns that have been raised regarding acceptability of alternative components by project component (Table 4-2).

Table 4-2. Stakeholder Concerns Regarding Acceptability of Alternative Components by region

All Alternatives Concerns:

Flow Equalization Basin access and recreational opportunities should be provided Provide deep water refugia to support fish and wildlife during dry periods Limited additional water supply afforded by the project Limited additional benefits to the Northern Estuaries

All Alternatives Concerns:

All Alternatives Concerns:
Potential effects on upland wildlife from changes in water depths in northern WCA 3A sawgrass areas increased closure of WCA 3A to public access for hunting
Cattall expansion along spreader canal inflow locations
Sufficient deep water refugia to support fish and wildlife during dry periods
Conflicting concerns about impacts to Miami Canal spoil mounds

Conflicting concerns about impacts to Miami Canal spoil mounds
Pro: Removing spoil mounds removes an impediment to flow
Con: Removing spoil mounds also removes refuge for fur bearing animals
Conflicting concerns about leaving the Miami Canal open south of I-75
Pro: Filling in the Miami Canal removes an unnatural disturbance in WCA 3A
Con: Filling in the Miami Canal impacts prime fishing opportunities in south Florida

Alternatives 2, 3 and 4:

Pro: Capability for operational flexibility to reduce fire risk Pro: Fishing in HRF to offset impacts due to Malmi Canal backfilling (boat ramps) Con: Fewer WCA 3A benefits than Alternative I, yet more costly

Con: Greater impact on recreational hunting access than Alternative 1

Alternative 1:

Pro: Least expensive

Con: Provides minimal sheetflow in WCA 3B, does not remove barriers to flow

Alternative 2:

Pris: Low O&M costs for spillways compared to pumps

Con: Surface water flow does not go south, and lack of flow through WCA 3B, does not remove barriers to flow

Con: Concerns regarding modifications to Agricultural ditches as collectors to aid flow of water out of WCA 3B.

Alternative 3:

Pro: Allows greater water than Alternatives 1, 2 and 4 to flow through WCA 3B Con: Increased costs (construction, O&M) and carbon footprint associated with extensive pumping Con: Does not increase ecological connectivity

Alternative 4:

Pro: Provides southerly flow direction in a portion of WCA 38

Pro: Removal of part of L-29 levee creates greatest ecological connectivity between WCA 3B and NESRS

Con: Building a new levee is not removing barriers to flow and levee would be a long term landscape feature

Con: Does not provide flow to the majority of WCA 3B.

Con: The lack of control of releases from western WCA 3B could exacerbate dry-outs or reverse flow situations.

All Alternatives:

- Con: Potential adverse impacts on water supply with seepage management options Con: Potential adverse impacts to Biscayne Bay with seepage management options Con: Water guality concerns for infrastructure returning seepage directly to ENP

Alternatives 1 and 2

Con: Increased capital and O&M costs associated with pumping
Con: Point source discharge rather than distributed flow due to pumping directly to ENP along L-31N

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4.1.3 Completeness

Completeness is the extent to which a given alternative plan provides and accounts for all necessary investments or other actions to ensure the realization of the planned effects.

Components in CEPP are interdependent features that necessitated formulation from a systems approach. The components in the central part of the Everglades are hydraulically connected from Lake Okeechobee to Florida Bay; and rely on one another for both inflows and outflows. These interdependencies required system-wide plan formulation from a spatial perspective to optimize structural and operational components, rather than formulating separable components that may not be compatible or complete for the cumulative watershed. Consequently, no alternative is complete unless all of the identified operations and infrastructure are included. In order to maintain completeness and meet constraints during construction, a strategic implementation sequencing and adaptive management plan will be required for any alternative recommended as the TSP.

In addition to the interdependent completeness of the components in the alternatives, there are both CERP and non-CERP activities that will be required to realize benefits are achieved and constraints are met.

- All alternatives in the final array depend on non-CEPP activities:
 - Tamiami Trail Next Steps 2.6 mile western Bridge and road raising
 - · State of Florida Restoration Strategies Water Quality Infrastructure
 - C-111 South Dade North Detention Area completion
- All alternatives in the final array depend on CERP activities:
 - Broward County WPAs
 - C-44 Reservoir (IRL-South)
 - C-43 Reservoir

4.2 EFFICIENCY ANALYSIS: ENVIRONMENTAL BENEFITS AND COSTS OF ALTERNATIVE PLANS

The CEPP recommended plan is justified by the environmental benefits derived by the south Florida ecosystem; however, a comparison of the benefits and costs of alternative plans is also conducted to ensure that a selected alternative is efficiently producing the environmental benefits. The measurement of efficiency is the extent to which an alternative plan is the most cost-effective means of alleviating the specified problems and realizing the specified opportunities, consistent with protecting the nation's environment.

Cost effectiveness/incremental cost analysis (CE/ICA) is used to evaluate and compare the production efficiency of alternatives, thus identifying plans that reasonably maximize ecosystem restoration, which is considered in identifying the NER plan. Cost effectiveness analysis begins with a comparison of the costs and outputs of alternative plans to identify the least cost plan for every level of output considered. Alternative plans are compared to identify those that would produce greater levels of output at the same cost, or at a lesser cost, as other alternative plans. Alternative plans identified through this comparison are the cost effective alternative plans. Cost effective plans are then compared by examining the additional (incremental) costs for the additional (incremental) amounts of output produced by successively larger cost effective plans. The plans with the lowest incremental costs per unit of output for successively larger levels of output are the best buy plans. The results of these calculations and comparisons of costs and outputs between alternative plans provide a basis for addressing the decision question "Is it worth it?" i.e., are the additional outputs worth the costs incurred to achieve them?

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The CE/ICA analysis follows guidance from the U.S. Army Corps of Engineers , ER 1105-2-100, Appendix E, para. E-36. Costs are based initially on a planning level estimate and benefits are based on the habitat unit (HU) evaluation. As per this guidance, CE/ICA analysis compares the alternative plans' average annual costs against the appropriate average annual habitat unit estimates. The average annual outputs are calculated as the difference between with-plan and without-plan conditions over the period of analysis (through year 2050).

4.2.1 Costs of Final Array of Alternative Plans

Costs represent the difference between conditions without any plan (the "base condition" or "without project condition") and with a plan or alternative. For purposes of this report and analysis, NED costs (National Economic Development costs, as defined by Federal and USACE policy) are expressed in 2013 price levels. Costs of a plan represent the value of goods and services required to implement and operate/maintain the plan. The cost estimate for the alternatives (Table 4-3) includes construction, lands, easements, right-of-ways, relocation (LERR), PED costs, construction management and OMRR&R and was developed through engineering design and cost estimation, and real estate appraisal efforts.

4.2.1.1 Overview of the Planning Level Cost Estimating Tool

A Planning Level Cost Estimating Tool has been developed and designed by SFWMD to enable a "Planning Level" Construction Cost Estimate for reservoirs, STA's, ASR's, and canals. The construction costs included in the planning level estimate include PED and construction management. Additionally, the costs include a 30% contingency.

The costs generated by this tool are screening level relative costs, not absolute costs. These costs should only be used to compare the costs of alternatives relative to one another, and are not to be used as the detailed costs for construction. These costs were developed using historical costs from SFWMD constructed projects. This cost estimating tool can be used to generate simple cost estimate comparisons between specific features, components and configurations. The tool takes into account soil conditions such as muck, sand, and clay, as well as local impacts such as the construction or removal of roads, bridges, transmission lines, railroads, rail yards, and/or railroad bridges, housing, farms, telemetry, etc. This tool does not take into account value engineering for having multiple features with shared components.

4.2.1.2 Overview of Real Estate Costs

A detailed analysis of the real estate requirements of the final array was completed. Each parcel required for construction or restoration activities was identified, characterized, and a value estimate was calculated. The real estate was valued in fee, however, lesser estates and interests in land could be considered.

Each of the alternatives had essentially the same land requirements. For all four of the alternatives, 14,521 acres in the A-2 Compartment were valued at SFWMD actual acquisition costs since these lands were purchased with both Federal Farm Bill funds and SFWMD funds. For all four of the alternatives, 145.5 acres (90.93 acres owned by the State of Florida and 54.57 acres owned by SFWMD) were required for the new feeder canal leading from the Miami Canal on the west running east to the A-2 Compartment. These lands were valued at an estimated fair market value. For all four of the alternatives, lands were required for construction of pump stations, and other structures within Water Conservation Areas 3A and 3B. These lands were not assigned a value as they were provided for the prior Central and Southern Florida Flood Control Project.

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4.2.1.3 Average Annual Costs

The timing of a plan's costs is important. Construction and other initial implementation costs cannot simply be added to periodically recurring costs for project operation, maintenance and monitoring if meaningful and direct comparisons of the costs of the different alternatives are to be made. A common practice of equating sums of money across time with their equivalent at an earlier point in time is the process known as discounting. Through this mathematical process, which involves the use of an interest rate (or discount rate) officially prescribed by Federal policy for use in water resource planning analysis (set at 3.75% at the time of the evaluation), the cost time stream for the alternative plans were mathematically translated into an equivalent time basis value. There is some uncertainty as to how any of the alternatives would be implemented. It is recognized that any of the plans would likely be implemented over a considerable length of time. For purposes of this evaluation, construction costs are assumed to incur on an equal monthly basis during the implementation of the alternative plans and would be implemented with no fiscal appropriation constraints.

ER 1105-2-100 requires that interest during construction IDC be computed, which represents the opportunity cost of capital incurred during the construction period. IDC was computed for PED costs from the middle of the month in which the expenditures were incurred until the first of the month following the estimated construction completion date. IDC was computed for both real estate and construction costs. IDC was computed for the total real estate cost starting from the month prior to construction commencing. The total first cost is the sum of construction and other capital cost, such as real estate and pre-construction. The total project investment is the first cost plus IDC. Table 4-3 summarizes the total investment cost and average annual costs of each alternative plan.

Table 4-3. Planning Level Construction and Investment Cost of Alternative Plans.

	SUMMARY OF COSTS FOR CEPP ALTERNATIVE PLANS*						
a Barania (n. 1925). 1934 - Garania Maria (n. 1927).	Alternative 1	Alternative 2	Alternative 3	Alternative 4			
Cost Component	148	14					
Construction Features	\$ 952,500,000	\$1,123,300,000	\$ 1,174,700,000	\$ 1,090,500,000			
Lands	\$41,200,000	\$38,700,000	\$38,700,000	\$38,700,000			
Total First Cost	\$993,700,000	\$1,162,000,000	\$1,213,400,000	\$1,129,200,000			
Interest During Construction							
Construction	\$53,000,000	\$62,500,000	\$65,400,000	\$60,700,000			
Lands	\$4,300,000	\$4,300,000	\$4,300,000	\$4,300,000			
Total Interest During Construction	\$57,300,000	\$66,800,000	\$69,700,000	\$65,000,000			
Total Project Investment	\$1,051,000,000	\$1,228,800,000	\$1,283,100,000	\$1,194,200,000			
Average Annual Cost							
Interest & Amortization	\$61,300,000	\$71,600,000	\$74,800,000	\$69,600,000			
Operation & Maintenance	\$5,500,000	\$6,400,000	\$6,900,000	\$6,500,000			
Average Annual Cost	\$66,800,000	\$78,000,000	\$81,700,000	\$76,100,000			

NER Annual costs are based on a 28-year period of analysis costs do not include Recreation Cost for Plan Formulation
 "Costs are planning level costs and do not colonicide exactly with the detailed costs of the TSP presented in other sections of the report. Computation of the detailed estimate for the TSP will be based on additional engineering and design.

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4.2.2 Ecological Evaluation (Habitat Units)

The CEPP devised a project-specific tool, referred to as the CEPP planning model to evaluate alternatives within the CEPP project area. The primary areas evaluated included the St. Lucie River and Indian River Lagoon and the Caloosahatchee River and Estuary, WCAs 3A and 3B, ENP, and Florida Bay. The CEPP planning model is a Microsoft (MS) Excel spreadsheet that utilizes project performance measures to derive a Habitat Unit (HU) score that represents the ecological performance achieved by each alternative. The complete description of the model and further information pertaining to the alternative evaluation is described in Appendix G (Benefit Model).

The CEPP planning model was used to aggregate the results of project performance measures. Each of the performance measures for the CEPP planning effort were derived from those approved for use in CERP by Restoration, Coordination and Verification (RECOVER). Eight performance measures were identified (Table 4-4). Performance measures were developed from the Northern Estuaries, Greater Evergiades Ridge and Slough, and Florida Bay Conceptual Ecological Models (CEMs) (Barnes 2005, Ogden 2005a, Rudnick et. al. 2005, Sime 2005). CEMs, as used in the Evergiades restoration program, are non-quantitative planning tools that identify the major anthropogenic drivers and stressors on natural systems, the ecological effects of these stressors, and the best biological attributes or indicators of these ecological responses (Ogden et al. 2005b). These CEMs have been extensively peer reviewed and provide the framework for the planning and assessment of the CERP.

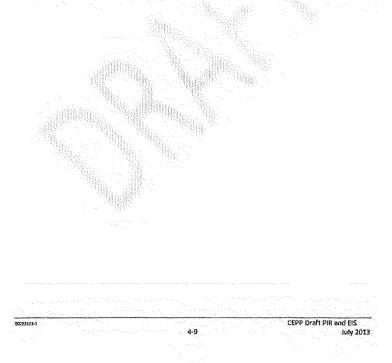
Each performance measure has a predictive metric and targets based on hydrologic requirements necessary to meet empirical or theoretical ecological thresholds. Detailed estimates of hydrology across the 41-year period of record (January 1965 – December 2005) generated by the RSM-BN (for the Northern Estuaries) and the RSM-GL (for the Greater Everglades and Fiorida Bay) were used to calculate performance measure scores.

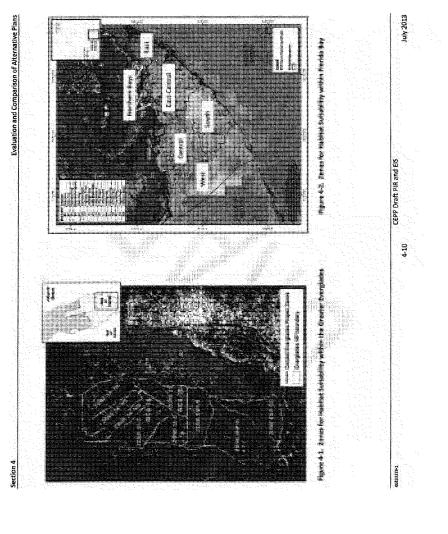
Table 4-4. Performance Measures Used to Quantify Identify National Ecosystem Restoration Plan

REGION	PERFORMANCE MEASURE	DESCRIPTION		
Northern Estuaries	Caloosahatchee Estuary PM 6.1 Low Flow Targets PM 6.2 High Flow Targets St. Lucie Estuary PM 7.1 Low Flow Targets PM 7.2 High flow Targets PM 7.2 High flow Targets	Measure of flow events correlated to be representative of median salinities favorable to marine fish, shellfish, oyster and SAV. Based on frequency of flows from S-79 and S-80.		
Greater Everglades	Hydrologic Surrogate for Soil Oxidation PM 3.1 Drought Intensity Index	Measure of cumulative drought intensity to reduce exposure of peat to oxidation.		
	inundation Duration: Ridge and Slough Landscape • PM 1.1 Percent Period of Record of Inundation	Measure of the number and duration of inundation events		
	Number and Duration of Dry Events: Shark River Slough PM 4.1 Number of Dry Events PM 4.2 Duration of Dry Events PM 4.3 Percent Period of Record of Dry Events	Measure of the number of times and mean duration in weeks that water drops below ground.		
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REGION	PERFORMANCE MEASURE	DESCRIPTION Measure of the timing and distribution of sheet flow across the landscape.		
	Sheet flow in the Ridge and Slough Landscape PM 2.1Timing of Sheetflow PM 2.2 Continuity of Sheetflow PM 2.3 Distribution of Sheetflow			
	Slough Vegetation Suitability PM 5.1 Hydroperiod PM 5.2 Drydown PM 5.3 Dry Season Depth PM 5.4 Wet Season Depth	Measure to evaluate the hydrologic suitability for slough vegetation		
Southern Coastal Systems	Salinity in Florida Bay PM 8.1 Dry Season Regime Overlap PM 8.2 Wet Season Regime Overlap PM 8.3 Dry Season High Salinity PM 6.4 Wet Season High Salinity	Measure of salinities correlated to be representative of salinities favorable to marine fish, shellfish, oyster and SAV.		





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Performance measure scores are displayed as a function of restoration potential or achievement of the target with the minimum value of zero representing a fully degraded ecosystem and a maximum value of 100 representing the restoration target. Habitat suitability indices associated with each performance measure are then summed and applied to the total spatial extent (acres) for each of the 17 zones (Figure 4-1 through 4-4) to produce habitat units.

Habitat unit results for the existing conditions baseline (ECB), the future without project condition (FWO) and the alternatives are displayed in Table 4-5.

Table 4-5. Habitat Unit Results.

Project Region (Zone)	ECB	FWO	Alt 1	Alt 2	Alt 3	Alt 4
Caloosahatchee Estuary (CE-1)	2,839	34,070	39,038	39,038	39,038	39,038
St Lucie Estuary (SE-1)	2,099	2,399	4,798	4,798	4,798	4,798
		40.00	9 9 9 9 9 9 8			1. 1. 1. 1.
Total Northern Estuaries	4,938	36,469	43,836	43,836	43,836	43,836
	1					
Northeast WCA 3A (3A-NE)	44,451	29,634	96,311	96,311	96,311	96,311
WCA 3A Miami Canal (3A-MC)	32,847	27,373	57,874	57,092	56,310	57,092
Northwest WCA 3A (3A-NW)	30,970	30,266	54,902	53,494	53,494	53,494
Central WCA 3A (3A-C)	108,414	105,669	109,786	109,786	109,786	109,786
Southern WCA 3A (3A-5)	69,247	68,423	68,423	67,598	67,598	68,423
WCA 3B (38)	55,697	48,842	58,258	59,125	57,411	54,840
Northern ENP (ENP-N)	57,557	55,054	102,601	101,350	103,852	102,601
Southern ENP (ENP-S)	124,068	126,454	169,400	169,400	176,558	188,488
Southeast ENP (ENP-SE)	79,711	81,062	82,413	82,413	82,413	83,764
	1	100	- 46			
Total Greater Everglades	602,962	572,777	799,978	796,569	803,733	814,799
	£.,	784 -964				
Florida Bay West (F8-W)	23,693	20,534	42,647	42,647	47,386	52,124
Florida Bay Central (FB-C)	8,205	8,205	15,589	14,769	17,230	17,230
Florida Bay South (FB-S)	15,514	14,659	30,296	29,318	33,228	35,182
Florida Bay East Central (FB-EC)	21,984	20,225	36,933	36,933	42,209	46,606
Florida Bay North Bay (FB-NB)	2,154	2,028	2,661	2,661	2,788	2,915
Florida Bay East (FB-E)	9,440	8,685	10,573	10,573	10,950	10,950
Total Florids Bay	82,090	74,336	138,699	136,901	153,791	165,007
Total Ali Regions	689,990	683,582	982,513	977,306	1,001,360	1,023,642

4.2.2.1 Average Annual Habitat Units

The average annual outputs were calculated as the difference between the with-plan and without plan conditions over the period of analysis (through year 2050). The average annual habitat unit lift is calculated as subtracting the future without project habitat units from the future with project habitat units for each year and averaging over the 28 period of analysis. The anticipated time it will take to realize the benefits is necessary to calculate the average annual lift associated with each alternative.

Natural ecosystems are complex, dynamic systems and the exact functional form of the relationship among variables is often unknown. The analysis of ecological response times for large, diverse

 ecosystems is extremely difficult to calculate. A linear function is the simplest quantitative way to describe the relationship between two variables. Linear functions essentially split the difference between over-and under-estimation, and are more conservative estimates of ecological response. A linear approach was used to predict ecological response time for each of the three regions of the project area for both the future without and future with project conditions; however the anticipated time to realize benefits varied with each region.

Northern Estuaries

An ecological response time for the Northern Estuaries was determined based on the ability of CEPP to improve conditions for oysters and submerged aquatic vegetation... The ecological response time was estimated to be approximately 6 years until full impact would be realized.

Greater Everglades

An ecological response time for the Greater Everglades was determined based on the ability of CEPP to improve conditions for aquatic and herbaceous vegetation communities, periphyton, piscivorous fish, aquatic prey base organisms, and geomorphological reshaping of ridges and tree islands. The ecological response time was estimated to be approximately 75-100 years until full impact would be realized, with a certain percentage of benefits accruing much faster as identified in Table 4-6.

Table 4-6. Ecological Response Time for Greater Everalades.

Percen	tage of Benefit A	chieved Over Tir	ne for the Greater I	verglades
0-2 Years	2-5 Years	5-10 Years	25-50 Years	75-100 Years
50%	70%	80%	90%	100%

Florida Bay

An ecological response time for Florida Bay was determined based on the ability of CEPP to improve conditions for phytoplankton, zooplankton, seagrass, and large and small invertebrates. The ecological response time was estimated to be approximately 15-25 years until full impact would be realized, with a certain percentage of benefits accruing much faster as identified in Table 4-7.

Table 4-7. Ecological Response Time for Florida Bay.

ŝ	Pr	rcentage of Ben	efits Achieved O	ver Time for Florida	Bay
	0-2 years	2-5 years	S-10 years	10-15 years	15-25 years
	40%	80%	90%	95%	100%

Table 4-8 includes the average annual lift when taking into account the ecological response times described above.

Table 4-8. Average Annual Habitat Unit Lift.

s	usije Aver	Average Annual Habitat Units					
	No Action	ALT.	ALT 2	AL (3	PALT 4		
St Lucie	2,363	4,471	4,471	4,471	4,471		
Caloosahatchee	30,285	34,650	34,650	34,650	34,650		
Greater Everglades	580,808	747,566	745,064	750,322	758,444		
Florida Bay	75,586	129,573	128,065	142,232	151,640		
Total	689,041	916,260	912,250	931,676	949,205		
Average Anni	al Habitat Unit Lift	227,219	223,209	242,635	260,164		

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4.2.3 Cost Effective Analysis/Incremental Cost Analysis

Sometimes it is difficult to summarize the results of CE/ICA when the analyses are performed separately on HUs for distinct species, communities or geographic areas. This phenomenon often occurs simply because different management measures or alternative plans have different functions, provide different types of output, and provide benefits to different biological communities. This is the case for the CEPP plans, in which certain features or alternatives provide greater benefits to Florida 6ay and Everglades National Park, while other alternatives provide greater benefits for Northern WCA 3A and WCA 3B.

Costs and benefits for each geographic area (Northern Estuaries, Greater Everglades and Florida Bay) were examined both independently and combined. However, a combined HU score summing all geographic areas of the study area, while not appropriately representing the significance of each geographic area, provides a valuable cumulative analysis for determining the plan which best meets the needs of the entire watershed and was be used to ensure a cost effective solution is identified.

For the incremental cost analysis, only the cost effective plans are arrayed by increasing output to clearly show changes in cost (i.e., increments of cost) and changes in output (i.e., increments of output) of each cost effective alternative plan compared to the without plan condition. The plan with the lowest incremental costs per unit of output of all plans is the first best buy plan. After the first best buy plan is identified, all larger cost effective plans are compared to the first best buy plan in terms of increases in (increments of) output. The alternative plan with the lowest incremental cost per unit of output (for all cost effective plans larger than the first best buy plan) is the second best buy plan. In summary, CE/ICA was performed using the following four spatial metrics to represent various ecosystem outputs of the CEPP alternatives:

- 1. System-Wide HU Score
- 2. Northern Estuaries
- 3. Greater Everglades
- 4. Florida Bay

4.2.3.1 CE/ICA Analysis - Total System-Wide Outputs

As can be seen in the following table (Table 4-9), both Alternatives 1 and 4 are identified as being cost effective for the aggregated system-wide habitat units. Alternatives 2 and 3 are both more costly than Alternative 4 and provide fewer overall habitat units, and these alternatives are not cost effective for the production of system-wide habitat units.

Table 4-9. Results of cost effectiveness analysis for total system-wide performance

	ALT1	ALT4	ALT2	ALT3
Average Annual Cost	\$66,800,000	\$76,100,000	\$78,000,000	\$81,700,000
Northern Estuaries	6,474	6,474	6,474	6,474
Greater Everglades	166,758	177,636	164,256	169,514
Florida Bay	S3,987	76,054	52,479	66,646
Average Annual System-wide HUs	227,219	260,164	223,209	242,635
Cost Effective	Yes	Yes		

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Notes: Values for alternatives are differences between "Without" plan and "With" plan on an average annual basis. Values assume system benefits [ecosystem outputs that would accrue to the study area if rest of CERP were constructed). Alternatives are arranged by increasing costs.

Table 4-10 shows that there is one best buy plans for the combined system-wide HU production, Alternative 4. Alternative 4-has the lowest cost per unit of output of any of the alternatives (\$293 per combined habitat unit). The next best alternative in terms of average cost per combined habitat unit is Alternative 1 (\$294), which is also a cost-effective alternative. Alternative 4 provides an increment of 32,945 additional habitat units over Alternative 1 at an incremental cost of over \$9,300,000 (Incremental cost of \$282 per habitat unit). Alternative 4 provides approximately 14% greater benefits for a cost increase of 14%.

Table 4-10. Results of incremental cost analysis

			Cost Per	Incremental Cost	Incremental HU	Incremental
The said	Cost	Habitat Units	HU	Increase	increase	Cost/HU
Alt 1	\$66,800,000	227,219	\$294	\$66,800,000	227,219	\$294
Alt 4	\$76,100,000	260,164	\$293	\$9,300,000	32,945	\$282

4.2.3.2 Efficiency Analysis

Following the results of the system-wide CE/ICA analysis, a more detailed examination of alternative components following the spatial perspective would:

- Provide insight into the efficiency of specific components,
- · Provide logic and opportunity to revise alternatives to maximize benefits while minimizing costs
- Identify information that would support selection of a more expensive cost effective plan (will help identify if the additional benefit is worth the additional cost)

Northern Estuaries

No component refinements resulted from the efficiency analysis of the Northern Estuaries. The benefits accruing to the Northern Estuaries are realized primarily due to the construction of the FEB and Lake Okeechobee operations. However, it should be noted that without the project components in the Greater Everglades and corresponding seepage management features, benefits to the estuaries will not be realized. All alternatives included the same infrastructure and cost (\$486 million) relating to the FEB and operations, and as there is no difference in benefits between alternatives for these project components.

Greater Everglades - Water Conservation Area 3A

The components providing benefits to Northern WCA 3A include the HRF and Miami Canal infrastructure needed to distribute the water delivered from the FEB. The hydropattern restoration feature is the primary difference between Alternative 1 (HRF west of the S-8 pump station) and Alternatives 2, 3 and 4 (HRF both west and east of the S-8 pump station).

As can be noted in Table 4-11, Alternative 1 was the highest performing alternative for WCA 3A, with little overall difference between alternatives. Alternative 1 also had the least amount of infrastructure,

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and consequently the lowest costs to achieve the benefits in WCA 3A. There is minimal spread in benefits between the alternatives (~2% difference) with a large cost difference (~25%).

The main difference in benefits among the alternatives occurs in the northern zones of WCA 3A (3A-NE, 3A-MC and 3A-NW). As the available water flows south, the hydrology and associated ecological benefits equilibrates across the system regardless of where the water entered northern WCA 3A, as noted by the equal benefits occurring in the central zone (3A-C). Differences among alternatives in southern WCA 3A are attributed to differences in infrastructure in delivering water to WCA 3B and/or ENP.

Table 4-11. Capital Costs per Alternative.

Zone	ALTI	ALT2	ALT3	ALT4	ĺ
Capital Cost	\$375,000,000	197	\$472,000,000		l
3A-NE	66,677	66,677	66,677	66,677	
за-мс	30,501	29,719	28,937	29,719	
3A-NW	24,636	23,228	23,228	23,228	ľ
3A-C	4,117	4,117	4,117	4,117	ĺ
3A-5	Q	-825	-825	- 0	į.

^{*}Note Benefits in this table are lift over the future without condition, and are not annualized; costs are non-annualized planning level construction cost that were used in the calculation of the project first cost.

As a result of this efficiency analysis, the HRF and Milami Canal infrastructure included in Alternative 1 was identified to minimize costs while increasing the benefits over the other Alternatives. Consequently, Alternatives 2, 3 and 4 were recommended to be revised to include the HRF and Milami Canal infrastructure contained in Alternative 1.

Greater Everglades - Water Conservation Area 3B and ENP

No cost effective infrastructure modifications were recommended to be made to any of the alternatives. However, it is recognized that operational changes to the L-67 structures could provide greater benefits to WCA 3B and the tentatively selected plan should further investigate the operational changes during the creation of the draft operations plan.

4.3 RECOVER SYSTEM WIDE EVALUATION

CERP's interagency science group (the REstoration COordination and VERIfication team, or RECOVER) conducted a broad-scale evaluation of ecological effects of Alternatives 1 through 4 on Lake Okeechobee, the Everglades, and the related estuaries, as required in the Programmatic Regulations. The scope of the review covers all areas expected to be improved by CERP, beyond the boundaries expected to be improved by CEPP, and includes a broad range of evaluation tools, performance measures, and best professional judgment that reach beyond the tools and expertise of the traditional USACE planning process. The tools and professional backgrounds of the reviewers represented decades of experience studying and modelling the ecology of south Florida. The purpose of the review is three-fold: to provide insight into whether some alternatives performed better ecologically than others, to indicate whether alternatives may lead to unintended ecological conditions, and to investigate for unintended effects beyond CEPP's boundaries that could potentially contradict CERP on a regional scale.

Key findings:

 All areas that CEPP Intends to improve can be improved by the proposed alternatives. These include the Northern Estuaries, the Greater Everglades, and the southern coastal systems.

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- The CEPP planning team's intent was to remain within the existing water schedule for Lake Okeechobee and thereby not impact the Lake's ecology. Modeling indicated that there are periods where the Lake's water level is held approximately 6 to 12 inches higher than ECB or FWO levels, while remaining within the current schedule. The higher water events are expected to be rare enough to avoid significant ecological effects.
- Modeling of the hydrology, salinity, and associated ecology of the St. Lucie and Caloosahatchee Estuaries, referred to collectively as the Northern Estuaries, showed a small reduction in fresh water discharges from Lake Okeechobee to the Northern Estuaries. Although the difference was not statistically significant, RECOVER concurred that the change is 'in the right direction' for reducing peak flow events. Ecological projections for oysters and sea grasses, key species in the estuaries, indicated improvements with CEPP implementation. Modeling indicated less fresh water entering the St. Lucie Estuary during low-flow times, when small amounts of fresh water are needed. CEPP operations and future increments of CERP should remain aware of the need for small amounts of base flow into the estuaries during drier times. Future operations of the Indian River Lagoon-South project can be optimized to help provide these base flows.
- In the Greater Everglades, all CEPP Alternatives provide significant improvement towards restoration, compared to the FWO. All alternatives showed improved ecological performance for fish, wading birds, and apple snails in northern and central WCA 3A and Shark River Slough. Improved hydroperiods and sheetflow in WCA 3A, WCA 3B, and ENP result in less soil oxidation, which promotes peat accretion necessary to rebuild the complex mosaic of habitats across the landscape. There are some differences among the Alternatives based on where and how the water will be distributed, i.e., Alt 1 may provide sheetflow to a larger area in WCA 3A, while Alternatives 3 and 4 provide more water to Shark River Slough and the southern marl prairies, improving conditions for fish, wading birds, alligators, tree islands and ridge and slough habitat. Overall, Alternative 4 appears to make the most 'efficient' use of the water CEPP is adding to the Everglades according to the surface flow vectors, sheetflow information, and wading bird, small fish performance measure outputs. Concerns were expressed about the Blue Shanty Levee in Alternative 4 limiting restoration of WCA 3B in the future. Suggestions were made to not include the levee or move it eastward from the Blue Shanty Canal location initially identified for Alternative 4. Given these concerns, the PDT may use adaptive management to determine the true need for, best use of, and best placement of the levee. A preference was also expressed to use passive structures rather than pumps in order to lower operations/maintenance and increase the natural aspects of Everglades restoration.
- The Southern Coastal Systems are estuaries on the southern end of Florida, which require fresh water inputs to reduce salinity levels and maintain ecologically favorable brackish conditions. All CEPP Alternatives showed decreased salinity compared to the FWO in Florida Bay, with associated ecological improvements for key species such as sea trout, pink shrimp, and crocodiles. Alternative 4, which yielded more flow through Shark River Slough, improves estuarine salinity conditions over the other alternatives. The differences among alternatives were much less than the differences between each alternative and the FWO. Based on the hydrologic connections between Shark River Slough and the southwest coastal areas of Florida, there is high likelihood that the southwest coastal areas will experience significant ecological benefits from any CEPP alternative; however, these could not be quantified to be added to CEPP evaluations due to the lack of salinity and ecological models in that area of the estuaries. Biscayne Bay may have reduced fresh water flows in the dry season compared to ECB and FWO in the area of CERP's Biscayne Bay Coastal Wetlands Project and Biscayne National Park, which could have adverse ecological effects. The CEPP planning team will investigate this further during the Savings Clause and Assurances analyses modeling.
- Overall, it appears that the alternatives that provide the most amount of water to ENP provide the least amount of water to Biscayne National Park, and vice versa, almost certainly due to the type of

00123864 CEPP Draft PJR and EIS 4-17 July 2013 seepage management and operational protocols employed. This will be addressed in the Savings Clause and Assurances analyses and will continue to be addressed with adaptive management during CEPP's implementation and operation.

There was consensus that proceeding with an adaptive management approach can further increase the benefits of CEPP and positively influence the implementation of CEPP in sensitive areas. Adaptive management provides a means to learn during implementation and operations, improves delivery of benefits, and-can minimize impacts, and therefore adaptive management is a significant source of ecological risk buy-down for CEPP.

4.4 SUMMARY OF OUTPUTS FOR THE FOUR ACCOUNTS

Upon identification of the final array of alternatives, each alternative plan and the FWO were evaluated and compared to identify the expected effects on the environment, the economy, society, and how well each plan met project objectives and avoided constraints.

4.4.1 National Economic Development (NED)

NED benefits are defined as increases in the economic value of the goods and services that result directly from a project. These are benefits that occur as a direct result of the project and are national in perspective. Benefit categories considered by the analysis include recreation, water supply, and flood control. While these three categories represent important national considerations, this project is not formulated to maximize NED benefit streams. NED benefits of the project would therefore be classified as incidental. Water supply and flood control benefits would be included only as a qualitative discussion. Recreation benefit quantification is necessary because those benefits would be used to offset costs of construction of proposed recreation features.

4.4.2 Environmental Quality (EQ)

The EQ account is used to present non-monetary effects on ecological, cultural, and aesthetic resources including the positive and adverse effects of ecosystem restoration plans. The Environmental Quality outputs for this project were displayed in the environmental effects section (Section, and as habitatunits that were assessed for cost effectiveness and incremental cost analysis (Section 4.2).

4.4.3 Regional Economic Development Account (RED)

All alternatives are anticipated to provide RED benefits. In particular, the construction of any recommended features would have a beneficial effect on employment and demand for local goods and services during the construction period. In addition, if recreational features are included it is anticipated that some lasting benefits would accrue to the area as a result of additional recreational use and the associated economic activity.

The expenditures are related to construction activities and the employment will occur when the expenditures are executed (Table 4-12). The total jobs created per \$1 million spent: 15.3

Tab	le 4-12. Jobs Generated	from CEPP Expenditures	: Employment Created by	Construction Expenditures.
	Alternative 1	Alternative 2	Alternative 3	Alternative 4
30	16,500	19,400	20,300	18,900

4.4.4 Other Social Effects Account (OSE)

Potential areas of social effects have been assessed as part of the study process. The key areas analyzed to date are summarized below. Relatively similar impacts would be anticipated for all alternatives.

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Prime and Unique Farmland: The majority of land within the project area is ridge and slough, sawgrass marsh, coastal wetlands and nearshore/open bay habitat with minimal potential for reduction in unique farmland. All project lands are state owned. The NRCS will be consulted regarding to documenting loss of Prime and Unique Farmland when CEPP has definitive project footprints. The EAA area proposed for conversion to a FEB is prime and unique farmland and represents the greatest adverse impact on this resource.

Environmental Justice: Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, requires the Federal government to achieve environmental justice by identifying and addressing high, adverse and disproportionate effects of its activities on minority and low-Income populations. Through the public participation process of the outreach and National Environmental Policy Act (NEPA) scoping, no high or adverse effects were identified. There was sufficient public input to feel confident that scoping was successful and that the breadth of the potential impacts were communicated and understood by the public.

Safety/Health:

All alternatives would be designed to dam safety requirements. All alternatives would maintain the WCA 3A Zone A regulation schedule, the Lake Okeechobee regulation schedule, and the level of service for flood protection in LEC.

Community Cohesion: Community cohesion would not change. No additional land purchase is proposed. No real estate relocations of residences are proposed.

Recreation: All alternatives reduce fishing opportunities in the backfilled portion of the Miami Canal. All alternatives include an FEB which adds 15,000 acres of recreational opportunities. No alternatives impact fishing access in the L-67A. Alternatives 2, 3 and 4 would lead to greater impact on recreational for bearing animal hunting than Alternative 1 due to HRF location.

4.5 IDENTIFICATION OF THE NER PLAN AND TSP

The overarching goal of CEPP is the environmental restoration of an Everglades ecosystem considered to be of both national and international significance. An alternative plan that reasonably maximizes ecosystem restoration benefits compared to costs, consistent with the Federal objective, is identified as the national ecosystem restoration plan (NER). Selecting the NER plan requires careful consideration of the plan that meets planning objectives and constraints and reasonably maximizes environmental benefits while passing tests of cost effectiveness and incremental cost analyses, significance of outputs, acceptability, completeness, efficiency, and effectiveness. In accordance with USACE guidance, the selected plan must be shown to be cost effective and justified to achieve the desired level of output (ER-1105-2-100 Appendor E, E-41).

Based on the information included in the preceding description of the P&G evaluation criteria, the following table (Table 4-13) rates each plan on the ability of each plan to meet the specified criteria (\emptyset not applicable; \neq does not meet; + partially meets; ++ fully meets). Both Alternative 1 and 4 are rated as highly functional, with Alternative 4 rated slightly higher than Alternative 1.

		Ta	ble 4-13: F	&G Evalua	tion Criteria			
Ev	aluation Criters	FWO/N	o Act	Alt 1	Alt 2	Alt 3		Alt 4
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Section 4

Evaluation and Comparison of Alternative Plans

Effectiveness	*		
Efficiency	ø	*	*
Completeness	Ø	•	•
Acceptability	*	100 at 1 100 st	

4.5.1 Modification of the Final Array and Identification of the NER Plan

Resulting from the efficiency analysis, HRF and Miami Canal infrastructure modifications were recommended to Alternatives 2, 3 and 4 and the descriptor "M" was added to the title to represent the modification.

Modifications to the HRF and Miami Canal infrastructure of Alternatives 2M, 3M, and 4M resulted in the a cost reduction of \$87,000,000 (Table 4-14). Since there was no significant difference between alternatives for the area influenced by the HRF and Miami Canal backfill, benefits were not recalculated and consequently, these alternatives were not re-modeled. Alternatives 1 and 4M are cost effective for the revised system-wide evaluation, and Alternatives 2M and 3M are not cost effective since they cost more than Alternative 4M yet provide fewer benefits. The original Alternatives 1, 2, 3 and 4 would no longer be cost effective since the costs of the revised alternatives decreased while the benefits were unchanged.

Table 4-14. Revised Alternative construction, real estate and O&M cost.

	Alternative 1	Alternative 2M	Alternative 3M	Alternative 4M
Construction Costs (30% Contin- gency)	\$952,500,000	\$1,036,200,000	\$1,087,700,000	\$1,003,500,000
Real Estate	\$41,200,000	\$38,700,000	\$38,700,000	\$38,700,000
Capital Cost Total	\$993,700,000	\$1,074,900,000	\$1,126,300,000	\$1,042,100,000
O&M/yr	\$5,500,000	\$6,400,000	\$6,900,000	\$6,500,000
Average Annual Cost	\$66,800,000	\$72,700,000	\$76,300,000	\$70,700,000
System-Wide Average Habitat Unit Lift	227,219	223,209	242,635	260,164
Average Annual Cost/Average Annual Habitat Units	\$294	\$326	\$314	\$272
Cost Effective	Yes			Yes
Best Buy			and the second second	Yes

The results of the efficiency analysis (CE/ICA) demonstrate that Alternative 1M and Alternative 4M are viable for implementation. Alternative 4M increases benefits over Alternative 1 by 14% while only increasing average annual costs by 5% (\$50,000,000 total investment increase). Alternative 4MR is the lowest cost alternative at producing system-wide benefits, and is therefore the only best buy alternative.

From an efficiency perspective, this assessment provides significant justification for identifying Alternative 4M as the NER Plan. The revised cost effectiveness evaluation demonstrated that Alternative 4M is the most efficient and effective at meeting project objectives, while meeting the completeness and acceptability requirements.

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Section 4

4.5.2 Operational Refinements of the NER Plan

The results of the NER analysis identified Alternative 4M infrastructure as providing the greatest overall benefits with the least cost per habitat unit however, the evaluation identified the need to revise the operations of Alternative 4M to ensure the project savings clause cogstraints are met, minimize localized adverse ecological effects, and identify additional opportunities to provide for other water

Three modeling scenarios were conducted to identify project effects resulting from operational changes.

water needs for natural letericay and chistomonia The first refinement. Alt 4R, focused on operation changes to avoid potential impacts to water supply levels of service in the Lake Okeechobee Service Area (LOSA) and Lower East Coast (LEC). Refinements included alleviating potential ecological impacts from lowered water depths in WCA 28 by retaining a small portion of the water in WCA 2B that Alternative 4M had diverted to WCA 3A. Increases in low flow events to the St. Lucie Estuary, minimized reductions in freshwater flows to Biscayne Bay, and improved water depths in eastern WCA 3B for purposes of improving environmental conditions were also considered. The modeling the impact

Alternative 4R changed assumptions from Alt 4M by including:

- St Lucie Reservoir (C-44) backflow to Lake Okeechobee.
- Revised Lake O. schedule releases to re-balance Lake / Water Supply / Estuary objectives.
- Reduced frequency & magnitude of CEPP 1-6 Diversion operations in ALT4R relative to Final Array ALTs.
- Increased utilization of \$144, \$145 and \$146 relative to \$11s.
- Increased seepage out of eastern ENP

This refinement resulted in an alternative that lessened concerns over violating constraints yet there remained room for improvement in LOSA water supply and the spatial distribution of groundwater and canal discharges in the LEC to provide greater confidence in meeting legal requirements of the savings clause. This alternative did not fully address the low flow events to the St. Lucie Estuary nor did it identify additional opportunities for other water related needs. ALT4R maintains the majority of the system benefit identified for Alt 4M in the final array evaluation and demonstrates a substantial hydrologic improvement over the baselines; however, represented a 6% decrease in overall project benefits due to competing demands for the allocation of water in the regional system.

Alt 4R.1

The second refinement, Alt 4R.1, was performed to determine if water supply cutbacks on LOSA could be further reduced and if increases in the LEC public water supply (PWS) could be met while maintaining the natural system performance realized from the adjustments that were made for Alt 4R. The PWS demands utilized in the alternative are based on per capita demand increases proportional to Florida's Bureau of Economic and Business Research (BEBR) medium population projections.

Alternative 4R.1 changed assumptions from Alt 4M by including:

- Revised PWS demand for LEC Service Areas 2 from 277 MGD to 295 MGD
- Revised PWS demand for LEC Service Area 3 from 412 MGD to 465 MGD

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- Operational updates to CERP's Indian River Lagoon South and Broward Water Preserve Areas projects were incorporated to ensure system-wide CERP operational efficiencies
- Reduced flood control releases within the flexibility of LORS 2008
- Refinement of backflows from C-44 reservoir to LOK and low-flow salinity discharges to meet St Lucie target

Alternative 4R.1 was successful in delivering additional water supply to LECSA 2 and LECSA 3 while maintaining the benefits identified for Alt 4R, but caused potentially adverse impacts by reducing freshwater flows to Biscape Bay. Additionally, the higher rate of increased pumpage was found to cause groundwater drawdown in the vicinity of water supply wells which could lead to the contamination of wellfields from saltwater intrusion. These negative effects compelled further operational refinements of further pursuit of Alt 4R.1 was abandoned.

Alt dR 3

The third refinement, Alt 4R.2 was also performed to determine if water supply cutbacks on LOSA could be further reduced and if increases in the LEC public water supply (PWS) could be met while maintaining the natural system performance realized from the adjustments that were made for Alt 4R, yet not incur the negative effects to groundwater and Biscayne Bay that Alt 4R.1 realized. This refinement limited the increase in PWS deliveries by reducing the demand in the model.

Alternative 4R.2 changed assumptions from Alt 4M by including:

- Revised PWS demand for LEC Service Areas 2 from 277 MGD to 291 MGD
- Revised PWS demand for LEC Service Area 3 from 412 MGD to 417 MGD
- Operational updates to CERP's Indian River Lagoon South and Broward Water Preserve Areas projects were incorporated to ensure system-wide CERP operational efficiencies
- Reduced flood control releases within the flexibility of LORS 2008
- Refinement of backflows from C-44 reservoir to LOK and low-flow salinity discharges to meet St Lucle target

Alternative 4R.2INSERT IMPACTS...

Table 4-15. Habitat Unit Results for Alt 4R and 4R.Zx

	Habitat Units					
Project Region (Zone)	Existing Condition Baseline	FWO Condition	Alt 4R	Alt 4R.2		
Caloosahatchee Estuary (CE-1)	2,839	34,070	39,038	39,038		
St Lucie Estuary (SE-1)	2,099	2,399	5,098	5,098		
Total Northern Estuaries	4,938	36,469	44,136	44,136		
Northeast WCA 3A (3A-NE)	44,451	29,634	92,606	91,372		
WCA 3A Miami Canal (3A-MC)	32,847	27,373	54,746	54,746		
Northwest WCA 3A (3A-NW)	30,970	30,266	54,198	54,198		

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Central WCA 3A (3A-C)	108,414	105,669	109,786	111,159
Southern WCA 3A (3A-5)	69,247	68,423	68,423	68,423
WCA 3B (38)	55,697	48,842	58,268	59,125
Northern ENP (ENP-N)	57,557	55,054	98,847	98,847
Southern ENP (ENP-S)	124,068	126,454	169,400	169,400
Southeast EMP (EMP-SE)	79,711	81,062	85,116	89,764
Total Greater Everglades	602,962	572,777	791,390	791.034
Florida Bay West (FB-W)	23,693	20,534	39,488	41,068
Florida Bay Central (FS-C)	8,205	8,205	13,948	14,769
Florida Bay South (FB-S)	16,614	14,659	27,364	28.341
Florida Bay East Central (FB- EC)	21,984	20,225	33,416	34,295
Florida Bay North Bay (FB-N6)	2,154	2,028	2,661	2,661
Florida Bay East (F8-E)	9,440	8,685	9,818	9,818
Total Florida Bay	82,090	74,336	126,695	130,952
		Sec.	1/41	A William
Total All Regions	689,990	683,582	962,221	966,122

The results of the ecosystem benefits analysis indicate a reduction in alternative performance for Alternative 4R and 4R.2 when incorporating the operational refinements. The reduction is a direct impact of meeting project constraints as can been noted in the results of the Alt 4R compared to Alternative 4M habitats units. The costs and environmental benefits of 4R and 4R.2 are equal, yet Alt 4R.2 better meets projects objectives by increasing public water supply opportunities and alleviates concerns over violating legal constraints of the project.

A similar reduction in benefit trends would be expected for any of the alternatives in the final array if the operational modifications required to ensure legal requirements were being met was similarly applied. Alternative 4R.2 would remain the only best buy alternatives. Although Alternatives 1M, 2M and 3M were not re-modeled, there is reasonable confidence that even if these alternatives only realized a 2% reduction in benefits as opposed to the 6% realized in Alternative 4R.2; Alternative 4R.2 would still be a cost effective alternative and fulfill the requirements for justifying a recommended plan as described in WRDA 2000. There are also substantial benefits that Alt 4R.2 exhibits in the Blue Shanty flow-way that are not captured in the Habitat Unit calculation, yet are significant and compelling reasons for identifying Alt 4R.2 as the Tentatively Selected Plan.

4.5.3 Tentatively Selected Plan

Alternative 4R2 (Figure 4-5) is the Tentatively Selected Plan for the following reasons:

- Alternative 4R.2 is the NER (National Ecosystem Restoration) plan.
- Alternative 48,2 meets the planning constraints for maintaining flood protection in the LEC, maintaining water for existing users in the Lake Okeechobee Service Area, would not adversely

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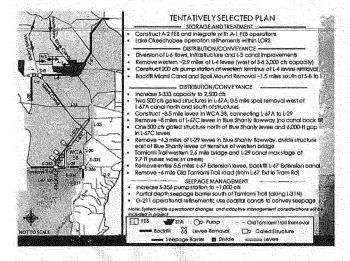


Figure 4-5. The CEPP TSP

Figure 4-5. The CEPP TSP

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Section 5-Tentatively Selected Plan 145 6.0 TENTATIVELY SELECTED PLAN Comment (SFWMD1): This Section needs to be re- written to focus first on the primery areas the receive project benefits (WCA 3A, ENP) 146 Please open the foldout figure at the end of this section for reference while reading. 148 The tentatively selected plan (TSP) will benefit the St. Lucie and Caloosahatchee Ekstuaries by decreasing the large pulses of regulatory flood control releases sent from Lake Okeechobee. 149 150 Redirectinging approximately 200k-acft of additional water to the historical southerly flow path south to 151 FEBs will provide storage capacity, attenuation of high flows, and limited pre-treatment prior to delivery 152 to existing stormwater treatment areas (STAs). The STAs reduce phosphorus concentrations in the 153 water to meet required water quality standards. Rerouting this treated water south and redistributing it 154 across spreader canals will facilitate raising water levelshydropattern restoration in Northern WCA 3A.in 155 Water Conservation Area 3A(WCA3A) This, in combination with Miami Canal backfillingand other CERP 156 components, is paramount to re-establishing a 500,000-acre flowing system through the northern most 157 extent of the remnant Everglades. Subsequently, I the treated water will be distributed throughfrom 158 WCA 3A to ENP and Water Conservation Area 3B (-WCA 3B) and Everglades National Park via additional 159 outflow structures and creation of the Blue Shanty Flowwayflow-way. The Blue Shanty Flowway will 160 restore continuous sheet-flow and re-connection of a portion of WCA 38 to Everglades National Park. 161 6.1 DESCRIPTION OF PLAN PLAN DESCRIPTION 162 163 164 6.1.1 Plan Features The tentatively selected plan (TSP) would decrease the large pulses of take Okeechobee water that 165 currently are sent east to the St. Lucie and west to the Caloosahatchee estuaries and send this water 166 Comment [dec2]: Acronyms in this section should have been previously defined within the document. southward through Everglades Agricultural Area (EAA) canals to flowage equalization basins (FEB). This reduction of the existing high flows to the St. Lucie and Caliosahatchee estuaries would help restore these estuaries. The FEBs would provide storage capacity, attenuation of high-flows, and limited pre-165 Comment [dec3]: Recommend rewording here to clearly indicate that CEPP is only constructing the treatment prior to delivery of this redirected water to existing stormwater treatment areas (STAs), 170 171 which would reduce phosphorus consentrations in the water to meet required water quality standards. Comment [dec4]: Nos surs "restore" is correct here, perhaps "improve" is more accurate given the modest reduction in high events; recommend also indicating which estuary characteristics are being improved —).e. salinity for seagreases, etc. 172 The treated water would be released at the <u>distributed across the</u> northwestern end <u>boundary o</u>f Water Conservation Area (WCA) 3A to flow through and help restore more natural quantity, timing and 173 distribution of waters to restore much of WCA 3A, WCA 38, Everglades National Park (ENP), and Fic 174 175 Bay. Several existing levees, canals, and culverts, and pump stations would be constructed, modified, or Comment [baf5]: New text suggested by TRB 5098135, saying the old text overstates the expected 176 oved to improve the flow of water through the system. The TSP's is, referenced throughout the 177 document as Alternative 4R.2 (Alt 4R.2), compone and features nts of it are organized into fourthreefour 178 majorgeographic groupsareas: North of the Redline, South of the Redline, the Green/Blue lines and 179 along the and along Blue Green Yellowline. 180 Features in the EAA (North of the Redline) includes construction and operations to divert, store and 121 182 treat Lake Okeechobee regulatory releases. 183 Storage and treatment of new water will be possible with the construction of of thea 14,000 acre A Comment [KMW6]: Add detailed write-up 184 2-FEB and associated distribution features on the A-2 footprint that is operationally 44-624 perimeter 185 lovce and L 525 interior levee: C 524, C 5245, C 526 internal distribution channels: S 523, S 524, S 186 187 628 injet structures; 5 625 outlet structures, and C 6265, C 625W canals and channels connecting the FEB to the Miami Canal). Operation of the A 2 FEB would be integrated with the operation of 188 the A-1-FEB, a state-funded and state-constructed A-1 FEB and existing STAs. LAKE OPERATIONS 189 NEED TO BE MENTIONED HEREFER. 190 Comment [KMW7]: CEPP Draft PIR and EIS

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Miami Canal north of S. 8. Operation of the A. 2 FEB would be integrated with the operation of the A.1 FEB, a state-funded and state constructed FEB. II. Conveyance features in WCA 2A and Nnorthern WCA 3A (South of the Redline) included conveyance features to deliver and distribute existing flows and the redirected Cake Okeechob water through Northern WCA 3A. Backfilling 13.5 miles of the Miami Canal between I-75 and the S-8 pump station, and converting the L canal into a spreader canal by removing 2.9 miles of the southern L-4 levee are the key features need to ensure spatial distribution and flow directionality of the water entering WCA 3A. Conveyance features to move water into and throughget water-intethe Northwest portion of Northee WCA 3A include: I-S-620 a gated culvert to deliver water from the L-5 Canal to the remnant L-5 Canal, diversion operations), S-621-a new gated spillway to deliver water from STA 3/4 to the S-7 pum station during peak discharge events (eastern flow route is not typically used during normal operation including 1-6 diversion operations, enlarge approximately 13.6 miles of the L-5 Canal, degraporal part of the L-5 Canal, degraporal part of the southern L-4 Levee along the northwest boundary of WCA 3A, S-630 360 cfs pump station to maintain Seminole Tribe water supply deliveries west of the L-4 Canal, and S-new gated culverts to deliver water from the Miami Canal downstream of S-8, which pulls water from the L-5 Canal to the L-4 Canal to the L-5 Canal, degraperoximately 13.5 miles of the S approximately 13.5 miles of the S approximately 13.6 miles of the L-6 Canal to the L-6 Canal, and seminately and special proximately 13.5 miles of the S approximately 14.5 canal and the L S Canal to the L Canal, and backfill 213.5 miles of the Miami Canal and i		Section 5 Tentatively Tentatively Selected Pla
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Section 5 Tentatively 6
Tentatively Selected Plan

A new Blue Shanty levee extending from Tamiami Trail northward to the L-67A levee will be constructed. This Blue Shanty levee will divide WCA 3B into two subunits, a large eastern unit (3B-E) and a smaller western unit, the Blue Shanty Flowway (38-W). A new levee is the most efficiently means to restore continuous southerly sheetflow through a practicable section of WCA 3B and alleviates concerns over effects on tree islands by maintaining lower water depths and stages in WCA 3B-E. The width of the 3B-W flow-way is aligned to the width of the 2.6-Mile Tamiami Trail Next Steps bridge, optimizing the effectiveness of both the flow-way and bridge.

In the western unit, two new controlled structures on the L-67A, removal of the L-67C and L-29 Levees within the flowway, and construction of a divide structure in the L-29 Canal will enable continuous sheetflow of water to be delivered from WCA 3A through WCA 3B to ENP. A controlled structure will also be added to the L-67A, outside the flowway, to improve the hydroperiod of the eastern unit of WCA 3B.

Increased outlet capability at the S-333 structure at the terminus of the L-67A canal, removal of approximately 5.5 miles of the L-67 Extension Levee, and removal of approximately 6 miles of Old Tamiami Trail between the Everglades National Park (ENP) Tram Road and the L-67 Extension Levee will facilitate additional deliveries of water from WCA 3A directly to ENP.

IV. Lower East Coast Protective Area (Yellowline): Includes features primarily for seepage management, which are required to mitigate for increased seepage resultant from the additional flows into WCA 3B and ENP.

5 333N a 1,150 cfs gated spillway adjacent to 5 333, \$ 531 a 500 cfs gated culvert in L-57A Levee and an associated 5,000 foot gap in the L 57C Levee, a flowway through the western end of WCA 3B (5: 632 and 5: 633 2 gated culverts in L 67A Levee, removal of approximately 8 miles of L 67C Levee, removal of approximately 4.3 miles of L 29 Levee, construct L 67D a new approximately 8.5 mile levee), \$-355W a gated spillway in the L 29 Canal to maintain water deliveries in the L-29 Canal to the eastern Modified Water Deliveries (MWD) 1-mile bridge and maintain western access to the L-29 Levee, remove approximately 5.5 miles of the L-67 Extension Levee, and remove approximately 6 miles of Old Tamiami Trail between the Everglades National Park (ENP) Tram Road and the L 67 Extension Levee. Work in this area also includes removal of spoil along the western L 67A canal in the vicinity of the new control structures and removal of vegetation along WCA 38 agricultural ditches Additional sonveyance features would be located in southern WCA 3A, WCA 38, and the northern edge of ENP: a 1,000 cfs gated spillway adjacent to 5 333, a 500 cfs gated culvert in L 67A Levee and an associated 6,000 foot gap in L 67C Lovee, a flowway through the western end of WCA 38 (2 gated culverts in L 67A Levee, removal of ~8 miles of L 67C Levee, removal of ≃4.3 miles of L-29 Levee, construct new ≃8.5 mile levee), a gated spillway in L-29 Canal to control water movement in the L-29 Canal and provide access to the L-29 Levee, remove ≃5.5 miles of the L-67 Extension Lovee, remove ≈6 miles of Old Tamiami Trail between Tram Road and L-67 Extension Levee, and remove spoil mounds along the northwestern side of the L 67A Canal adjacent to the new structures in the L 67A Levee, and incidental remove vegetation along agricultural ditches.

Features primarily for seepage management (Yellowline), which are required to mitigate for increased seepage resultant from the Blue Green line features include: S-356 aA new 1,000 cfs pump station will be constructed to replace the existing temporary S-356 pump station and an eapproximately 4.2 mile

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Primarily for seepage management along the eastern edge of ENP include a new 1,000 cfs tion to replace the existing temporary 5.256 pump station and a 24 mile long. 35 feet deep ecoage barrier cutoff wall along the 1,31N Levee just south of Tamiami Trail. The features are itemized in Table 5.1 and located in Figures 5.1 through 5.43 (also see end of	ment (SFWHD8): teclude cavest language 100k miner' i cutoff wall here need (SFWHD9); Will there be a structure set included for each identified project area of feature widon that project area?
tion to replace the existing temporary S-356 pump station and a -4 mile long, 35 feet deep eapage barrier cutoff wall along the L-31N Levee just south of Tamiami Trall. In features are itemized in Table 5-1 and located in Figures 5-1 through 5-44 (also see end of	ment (SFWNOS); Will there be a shocture and included for each identified project draw ch feature within that project area?
	ment (STWMOS): Will here he n structure wert included for each identified project avec eth floature within that project area?
Adout Figure). TO BE REPLACED WITH THE GRAPHICS FROM PATRICE AND DAVID. Common facts in medical medic	ment (\$PVMNOS): Wil there be a structure with the structure was the structure with included for each thetailfield projects error chi floating within that project area?
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tructure/Feature	Structure/Feature	Design	The company of the co	
Number		Capacity		Took Speci & Notes
NORTH		Andrew Control of Cont	REATMENT FLOW EQUALIZA	TION BASIN (FEB) A-2
5-623-(DS-8)	Gated-Spillway	3,700	On STA 3/4 Supply Const	Delivers water from Miami Canal to existing G-372
5-624 (DS-5)	Gated-Sag Culvert (FEB inflow structure)	1,550	On STA 3/4 Supply Const	Receives water from G-372 v STA-3/4 Supply Canal and delivers to C-624 canal
5-625 (DS-7)	Gated Gulverts (FEB discharge structure)	1,550	Discharge structure in FEB perimeter levee 6-624	Delivers water to FEB outflow canal
S-626 (PS-1)	Seepage Pump Station	50 0	West side of seepage canal, C 626	Delivers seepage-back into the FFB outflow canal C-625W
5-627-(CS-4)	Emergency Overflow-weir	445	Between A-2 and A-1 F68, just north of -5-628	445-cfs for 100 yr 24-hr (per DCM-2)
S-628 (DS-9)	Gated Guivert FEB intake/ discharge structure	930	Botwaen A 2 and A 1 FEB	Delivers water in both directions between A 2 and A 1 FEB
L-624	Levee		FEB Perimeter Levee	≃ 20 miles, 11,3 h, 14ft w, 3:
L-625	Levée		FES interior inflow canal levee	= 4 miles, 13-3 h, 12ft w, 3:1
C-624	Inflow Const	1,550	West-side of FEB	≃4-miles
C-624E	Spreader Canal		Northern-boundary of FEB	=4 miles
C-625E	Collection Canal	400	FEB interior collection canal along southern perimeter	Existing seepage canal for ST 3/4 Supply Canal, used to supplement FEB sheetflow during normal operating conditions; provides primary conveyance when no sustained pool depth (i.e., or sheet flow)
C-625W	Outflow Ganal	1,550	FEB exterior autilians; between 5-625 and 6- 372-HW	FEB Outflow is the expanded seepage canal for the STA 3/- Supply Canal
C-626	Seepage Ganal	400	West and Northern exterior perimeter of FEB	=11 miles
	SOUTH OF T	HE REDLINI	- DIVERSION & CONVEYAN	CE III
5-620-(CS-1)	Gated Gulvert	500	In-L- 6 C anal	Delivers water from L-6 conal-to L-5-canal
\$ 631 (\$ 3)	Gated Spillway	2,500	On STA 3/4 Outflow Cond	Closed to direct STA 3/4 discharges to western L-5 Canal during normal oper- ations; controls water from STA 3/4 to the S-7 pump station during peak events.

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CONTRACTOR	Structure/Festure	Design:	HAN WAR STANDING	La energy services
Number	Arecture Feetier	Capacity	Location .	Tack special Notes
	SOUTH OF THE	REDLINE CO	NT'D - DIVERSION & CONVI	EYANCE
S-622-(CS-3)	Gated Spillway	500	In L-5-Canal	Delivers water from east to west in L-S-canal
Ne w (S 8A)	Gated Gulverts w/canal	3,080 & 1,020 (costed)	In Miami and L-4 Canal	Delivers water from L 5 west to L 4 (3,120 cfs and remaining Miami Canal segment 1,040 cfs)
5-620	PumpStation	360	In L-1 Consi	Delivers water from L-4 Canal west to maintain existing water supply deliveries
	Levec Removal		L-4-Interior Levee	Remove≃2.0 miles, 6ft h, 10 w, 2.6:1 side slopes
	Canal		Miami-Canal	Remove≃ 13.5 miles
	Tree Islands Mounds		Mlami Canal	Create habitat and premote sheetflow in WCA-3A
	Ganal	500	Remnant L 5 Canal east	Enlarging-canal
	Ganal	3,000	L-5-Canal west	Enlarging-canal
BLUE	GREEN YELLOW LINE	-DISTRIBUT	ION, CONVEYANCE & SEEPA	IGE-MANAGEMENT
5 333 (N)	Gated Spillway w/new canal	1,150	Just north of existing	Delivers water from L-67A Canal to L-29 Canal
New 5-356	Pump Station	1,000	In vicinity of existing	Provides seepage management for WCA 38-an NESRS stages
S-631	Gated-Culvert	500	In L 67A Levee	Delivers water from WCA-3A to 38, east of L-670 Levee
5-632	Gated-Culvert	599	In L 67A Levee	Delivers water from WCA 3A to 38, west of L-670 Levee
5-698	Gated Culvert	500	In L-67A Levee	Delivers water from WCA 3A to 38, west of L-67D Levee
	Levee-Removal Gap		L-67C Levee	= 6000 ft gap corresponding 5-631, 5ft height, 10ft-w, 3:1
L-670	NewLevee		In-WCA-3B	= 8.5 miles connects from L 67A to L 29, 6 ft height, 14 ft crest width, 3:1 side slopes
	Levee Removal		L-67C Levdes	*8 miles complete removal from New Levee (L 67b)sout to intersection of L 67A/L 67 L 67C canal is not backfilled
5-355W	Gated Spillway	1,230	in L29 Canal, east of L-670 Levee terminus and 2.6 mile bridge	Maintains water deliveries in L-29 Canal to 1 mile bridge 8 maintains access for Tigertail Camp to Tamiami Trail
	Levee Removal		L-30 levee	24.3 miles removal east of Valulet monument to L. 67D Levee intersection with L. 20 Levee, 10ft height, 10ft w. 3.

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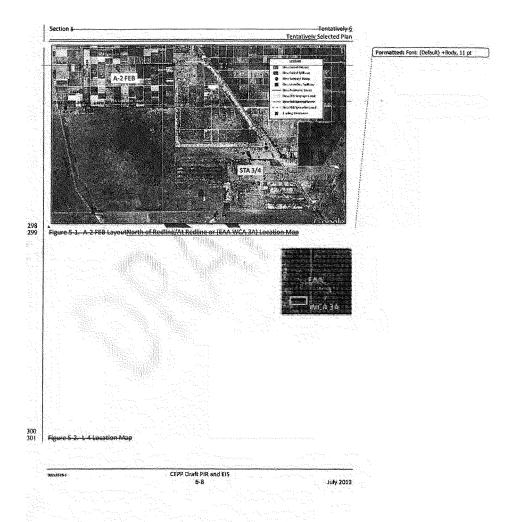
	TABLE A 1. Summa	ry of Tenta	tively Selected Plan Feature	4 CONTO
Structure/Festure Number	Structure/Feature Type	Design Capacity (cfs)	Location	Fach Spees & Nates
BLUE GRE	EN YELLOW LINE CON	PD - DISTRI	BUTION, CONVEYANCE & SE	EPAGE MANAGEMENT
	Road Removal		Old-Tamlami-Trail (from L-67 Ext west to ENP Tram-8d)	= 6 miles of Old roodway removal , 5 ft height, 20 ft w, 2:3
	Levce Removal and Canal Backfill		L-67 Ext levee and Canal	= 5.5 miles complete removal of L 67 Ext; 8ft height, 10ft w, 3-1
	Seepage Barrier Gutoff Wall		In L-31N levee just south of Tamiami Trail	"4.2 miles of 3 ft wide, 35 ft deep, Soil Coment Bentonite (SCB) Wall
5-346	2-72" metal culvert w/Flash Board Removal	165	in Old Tamiami Trail	Anticipate removal if =5.5 miles of L-67 Ext removed

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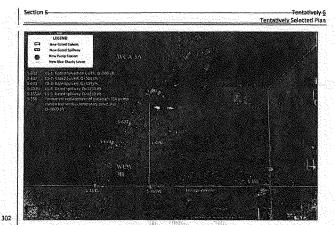


Figure 5-3. WGA 38 Location Map

6.1.2 Lands and Interests in Lands

6.1.2.1 A-2 Flow Equalization Basin

Fee title will be required for the project footprint of the A-2 FEB and the A-2 FEB ordivers (anal. The A-2 FEB requires approximately 13,849 acres in Compartment A, of which approximately 13,839.44 acres were acquired in the Talisman exchange/acquisition. The remaining approximately 9.9 acres in the A-2 FEB were acquired by the SFWMD using State funds. In March 1999, the "Talisman Exchange and Purchase and Sale Agreement" effected transactions in which certain landowners in the EAA would sell lands to, or exchange lands, with other landowners and the SFWMD in order for SFWMD to own contiguous parcels of land in the southern portion of the EAA for the purposes of Everglades restoration. As part of the transaction, SFWMD contributed total payment to buy out the farming reservation held by the St. De Paper Company. As per the terms of the Cooperation Agreement between the SFWMD and the Department of Interior (DOI), SFWMD elected to apply program income revenue towards the repayment of its contribution, SFWMD will seek credit for the balance of its contribution as an allowable project expense for cost-sharing purposes. The Federal funds contributed by DOI pursuant to the Farm Bill Section 390 of the Federal Agriculture Improvement and Reform Act of 1996 (Public Law 104-127, 110 Stat. 1022) will be credited to the Federal share of the project cost pursuant to Section 601 (e)(3) of the Water Resources Development Act of 2000. The state funds contributed by SFWMD for the acquisition of the Talisman property, subject to the paragraph above, will be credited to SFWMD. These lands are currently leased by the SFWMD to agricultural interests. More details are provided in Appendix D, Real Estate.

Comment [SFWHD10]: Need to add in an opening description of what the lands are needed for (construction and OMRR &R)

Comment (SFWMD11): Delete details on crediting here (details are found in the roal mane appendix) and focus on summary of land interests

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6.1.2.2 Flow Equalization Basin Discharge Canal	
The A-2 FE8 Discharge Canal runs from the STA 3/4 supply canal to the southwest corner of the A-2 FE8.	
There are approximately 91.25 acres required for this canal. The canal runs along the southern portions	
of Sections 35 and 36, Township 46 South, Range 35 East. Approximately 57.02 acres are owned by the	
State of Florida and will be acquired by SFWMD. The remaining 34.23 acres are owned by SFWMD and	
were acquired as part of the Talisman Exchange, with both Federal and State funds. The Federal funds	
contributed by DOI pursuant to the Farm Bill will be credited to the Federal share of the project cost.	
The state funds contributed by SFWMD for the acquisition of the Talisman property will be credited to	
SFWMD. Fee title will be the required estate for these lands. These lands are currently leased by either	Comment [SFWMD12]: The acquisition
	requirements in this section need to be clarified
Real Estate	
[개발] [[[[[[[[[[[[[[[[[[[[Tribe. N
6.1.2.3 Water Conservation Areas 3A and 38	V May IVING 1.
SFWMD owns a variety of interests in WCA 3A and WCA38. These lands were acquired and provided for	1 710
the Central and Southern Florida Project (C&SF). The SFWMD owns fee title to approximately	Lmourgu
134, 280.95 acres, a perpetual flowage easement over approximately 300, 343.52 (with the fee owned by	I ALL MOITS II.
the State of Florida), a perpetual flowage easement over approximately 70,612 (with the fee owned by	1 00 11/210
private parties), canal or levee easement over approximately 11,598.84 acres and a perpetual easement	> . I LC YNA
for surface flowage rights over approximately 73,360 acres (with fee title owned by the State). All of	z romi
these lands were provided as an item of local cooperation for the C&SF Project. The rights owned by	/ IN THINK
SFWMD in WCA 3A and WCA 3B have been determined to be sufficient for CEPP project purposes. The	I I I I A COOK
SFWMD will recertify these lands to the Federal government when required for construction or	I MANUA
operations at no cost to CEPP. More details are provided in Appendix D, Real Estate.	The Tribe he countries to be controlled. The Tribe he country we construct that we kight's that we should aucknow that we should aucknow that we than the first that we have the first than the first th
	- this in
6.1.2.4 Uniform Relocation Assistance Act, PL91-646 as amended	1 /~ ``
There are no residential relocations entitled to Uniform Relocation Assistance Benefits associated with	
project implementation. There are no dustriesses reduning relocation as a result of this Project,	
therefore, there are no additional persons or businesses entitled to Uniform Relocation Assistance	
Benefits, Public Law (PL) 91-646, as amended. All relocation benefits were included as part of the	
Talisman exchange/acquisition agreement.	
이번 바다 내가 되고 있는데 그리를 잃었다면 하는데 그 얼마나 있다면 그렇게 되었다. 그렇게 되었다면 하는데 그렇게 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 하는데 되었다면 하는데 하는데 되었다면 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 하는데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면	
6.1.2.5 Facility/Utility Relocations	
Florida Power and Light lines will have to be relocated or abandoned from the center of the detention	
area within the A-2 FEB. Florida Power and Light, and Quest Communications lines will have to be	Comment [SFWMD13]: This location need be updated
relocated where the L-29 is being removed. The removal of Old Tamiami Trail will require relocation of	Cae infrared
the Florida Power and Light line.	
	A STATE OF THE PARTY OF THE PAR
5.1.3 Draft Project Operating Manual	Comment [SFWMD14]: Combine with Ser 6.6.3
A Draft Project Operating Manual (DPOM) was developed to control day-to-day water management	· ·
functions of the project. The OPOM encompasses all foreseeable conditions that may be encountered	
during project operation. The project will be operated in accordance with the DPOM to achieve the	
goals, purposes, and benefits outlined in the Project Implementation Report, including the improvement	
of the quantity, timing, and distribution of water in the natural system. All costs associated with the	
physical operation of the project will be funded through OMRR&N. The DPOM is in Annex d	Comment [SFWMD15]: Move to OMRRA Section
그 회사는 동안 교리 사이트로 사용하는 것 같아 되었다. 나를 받는 것은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.	The second secon
t is important to note that refinements to the operating criteria and the DPOM will be made as more	Comment [SFWMD15]: Need to include a summery here of how the project features will be
design details, data, operational experience and information are gained during preconstruction	operated.
engineering and design, construction, and operations.	
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the CEPP Adaptive Management (AM) and Monitoring Plan (AM and Monitoring Plan, Annex D) identifies the monitoring information needed to inform CEPP implementation and to document restoration progress to agencies, the public, and Congress. The overall objective of the AM and Monitoring Plan is to focus resources on continued refinement of CEPP to fine-tune performance due to inevitable uncertainties, based on existing knowledge that will be gained through monitoring and assessment. Items in the AM and Monitoring Plan that are not required for regulatory monitoring are subject to further prioritization and screening and are not guaranteed to be executed. As test project and pilot project results become available, as continued ecosystem monitoring date become available, and as the level of knowledge changes through time, it is likely that the number of Items that need to be included in the final AM and Monitoring Plan will be reduced. A fundamental principle of AM is that a project can be adjusted to continually achieve high performance toward the project's goals and objectives and to remain within its constraints. In particular, in AM the adjustments are not "trail and error", which can be costly and erratic, but rather they are based on a scientifically efficient and sound process of learning from data. These adjustments should be viewed as mateligently fine-tuning the project, the need for which is almost inevitable in a large-scale, long-term restoration project like CERP. Given this fundamental principle of AM, the CEPP AM and Monitoring Plan provides suggestions for adjusting certain aspects of CEPP if necessary. The suggestions are not required actions, nor are they meant to limit agencies from considering other options. They have been analyzed under the existing NEPA analysis of CEPP in Sections 4 and 5 and in Appendices C.2.1 and C.2.2. See Annex D for the full AM and Monitoring Plan. 6.1.5 Exotic and invasive Species Management Plan An exotic and invasive vegetation winthin the project area. Specifics			Tentatively Selected Plan	
the CEPP Adaptive Management (AM) and Monitoring Plan (AM and Monitoring Plan, Annex D) (dentifies the monitoring information meeded to inform CPP implementation and to document restoration progress to agencies, the public, and Congress. The overall objective of the AM and Monitoring Plan is to focus resources on continued refinement of CEPP to fine-tune performance due to inevitable uncertainties, based on existing knowledge and knowledge that will be gained through monitoring and assessment. Items in the AM and Monitoring Plan that are not required for regulatory monitoring are subject to further prioritization and screening and are not guaranteed to be precuted. As test project and pilot project results become available, as continued ecosystem monitoring data become available, and as the level of knowledge changes through time, it is likely that the number of items that need to be included in the final AM and Monitoring Plan will be reduced. A fundamental principle of AM is that a project can be adjusted to continually achieve high performance toward the project's goals and objectives and to remain within its constraints. In particular, in AM the adjustments are not "trial and error", which can be costly and erratic, but rather they are based on a scientifically efficient and sound process of learning from data. These adjustments should be viewed as intelligently fine-tuning the project, the need for which is almost inevitable in a large-scale, long-term restoration project like CEPP. Given this fundamental principle of AM, the CEPP AM and Monitoring Plan provides of the screen provided for discussion. The suggestions are not required actions, nor are they meant to limit agencies from considering other options. They have been analyzed actions to provide the certain project sizes. The primary objectives of this effort for CEPP is to establish favorable conditions suitable for the long-term maintenance control of non-native species, and the re-establishment of massive vagetism and project sizes. The primary o		2 - 시청 시대부드 : ** (* * *		
identifies the monitoring information needed to inform CEPP implementation and to document restoration progress to agencies, the public, and Congress. The overall objective of the AM and Monitoring Plan is to focus resources on continued refinement of CEPP to fine time performance due to inevirable uncertainties, based on existing kinowhedge and knowledge that will be gained through the contribution and assessment. Items in the AM and Monitoring Plan that are not required for regulatory monitoring are subject to further prioritization and screening and are not guaranteed to be pexecuted. As test project and pilot, project results become available, as continued ecosystem monitoring data become available, and as the level of knowledge changes through time, it is likely that the number of items that need to be included in the final AM and Monitoring Plan will be reduced. A fundamental principle of AM is that a project can be adjusted to continually achieve high performance toward the project's goals and objectives and to remain within its contraints. In particular, in AM the adjustments are not "trail and error", which can be costly and erratic, but rather they are based on a scientifically officient and sound process of learning from data. These adjustments should be viewed as a relations, nor are they meant to limit agencies from considering other options. They have been analyzed under the existing WEPA analysis of CEPP in Sections 4 and 5 and in Appendices C.2.1 and C.2.2. See Annex D for the full AM and Monitoring Plan. 6.1.5 Exotic and invasive vegetation management Plan An exotic and invasive vegetation or native species at project sizes. The primary objectives of this effort for CEPP is to establish favorable conditions suitable for the long-term maintenance control plan are contained in Annex D. 6.1.6 Recreation Features The proposed recreation facilities will increase access into the Greater Everglades and enhance users' opportunities and consist in the march. Facilities include sufficient gravel park				Comment [SFWMD17]: Combine with
restoration progress to agencies, the public, and Congress. The overall objective of the AM and Monitoring Plan is to focus resources on continued refinement of CEPP to fine-temperformance due to investigation of CEPP to fine the AM and Monitoring Plan that are not required for regulatory monitoring are subject to further prioritization and screening and are not guaranteed to be focus and pilot project results become available, as continued ecosystem monitoring data become available, and as the level of knowledge changes through time, it is likely that the number of Items that need to be included in the final AM and Monitoring Plan will be reduced. A fundamental principle of AM is that a project can be adjusted to continually achieve high performance toward the project's goals and objectives and to remain within its constraints. In particular, in AM the adjustments are not "trial and error", which can be costly and erratic, but rather they are based on a scientifically efficient and sound process of learning from data. These adjustments should be viewed as intelligently fine-tuning the project, the need for which is almost inevitable in a large-scale, long-term restoration project like CERP. Given this fundamental principle of AM, the CEPP AM and Monitoring Plan provides and objectives and to remain aspects of CEPF if necessary. The suggestions are based on a scientifically efficient and sound process of learning from data. These adjustments should be viewed as metallically efficient and sound process of learning from data. These adjustments of required actions, nor are they meant to limit agencies from considering other options. They have been analyzed under the existing NEPA analysis of CEPP is freedsary. The suggestions are not required actions, nor are they meant to limit agencies from considering other options. They have been analyzed under the existing NEPA analysis of CEPP in Sections 4 and 5 and in Appendices C.2.1 and C.2.2. See Annex D for the full AM and Monitoring Plan. 6.1.5 Exotic and invasive v				1969
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6.2 COST ESTIMATES OF RESTORATION ELEMENTS

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6.2 CUST ESTIMATES OF RESTORATION PLEMENTS.
Table S-2 includes a breakdown of the estimated costs of CEPP by construction and non-construction costs for ecosystem restoration activities. Non-construction costs generally include LERR (lands, easements, rights-of-way and relocations), PED and S&A costs. Costs are estimated at Fiscal Year 2013 price levels and rounded to the nearest \$1,000,000. The Federal discount rate of 3.75% and a 28-year recognition englind of analysis ware used to amonths costs. economic period of analysis were used to amortize costs.

Comment [SFWMD21]: This table needs to include OMRR&R Costs and Adaptive Managements

429 | Table 6-112. Ecosystem Restoration Cost Estimates

Construction Item	Cost
Lands & Damages	\$ 41,000,000
Storage and Treatment Features	\$780,000,000
03 Reservoirs	780,000,000
Northern WCA 3A Features	\$509,000,000
09 Channels & Canals	343,000,000
11 Levees	9,000,000
13 Pumping Plant	125,000,000
15 Floodway Control Structures	32,000,000
Southern WCA 3A, 3B, ENP Features	\$92,000,000
02 Roads	11,000,000
09 Channels & Canals	1,000,000
11 Levees	39,000,000
15 Floodway Control Structures	41,000,000
Secpage Management Features	\$198,000,00
11 Levees	70,000,000
11 Levees	20,000,000
13 Pumping Plant	108,000,000
Construction Features Sub-Total	\$1,579,000,00
Preconstruction Engineering and Design (PED, E&D)	\$158,000,00
Construction Management (S&A)	\$126,000,00
	<u> </u>
Total First Cost	\$1,904,000,000
Investment Costs	
Interest During Construction: Construction	104,000,000
Interest During Construction: Real Estate	4,000,000
Total Investment Cost	\$2,012,000,000
Average Annual Costs	
Interest and Amortization of Initial Investment	117,000,000
OMRR&R	4,000,000
The same of the sa	
Monitoring	78D (~1% of project cost

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Based on limited engineering and design of the TSP for this study, the average annual cost is \$121,000,000.

Real Estate

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 Fee title will be required for the project footprint of the A-2 FEB and the FEB Discharge Canal. The estimated real estate cost for the A-2 FEB utilizing the actual acquisition costs are \$31,710,058 of which approximately \$30,220,406 will be credited to the Federal government since it was Federal funds contributed by DOI pursuant to the Farm Bill Section 390 of the Federal Agriculture Improvement and Reform Act of 1996 (Public Law 104-127, 110 Stat. 1022). SFWMD contributed approximately \$1,366,352 to buy out the farming reservation held by the St. Joe Paper Company which will be credited to SFWMD. The remaining \$123,750 is attributed to approximately 9.9 lands, SFWMD acquired from a private individual in the A-2 FEB. For the FEB Discharge Canal comprised of approximately 91.25 acres, SFWMD acquired 34.23 acres with Farm Bill and State funds. Approximately \$78,801 will be credited to the Federal government and \$10,246 will be credited to SFWMD. The approximately 57.02.6 acres owned by the State of Florida were valued at \$712,750. SFWMD will recertify the lands in WCA 3A/3B to the Federal government when required for construction or operations at no cost to the CEPP project. Administrative costs were calculated at approximately \$1,664,811. An incremental real estate cost for all the above cost was calculated at \$2,509,125. Total estimated real estate costs were estimated at \$36,690,000 rounded.

6.3 COST ESTIMATE FOR RECREATION ELEMENTS

The justification for incurring additional costs for recreation features is derived by utilizing a benefit to cost ratio. The tangible economic justification of the proposed project can be determined by comparing the equivalent average annual costs with the estimate of the equivalent average annual benefits, which would be realized over the period of analysis. These average annual recreation benefits and costs are summarized in Table 6-2Table 6-2Table 5-3. The federally mandated project evaluation interest rate of 3.75 percent, an economic period of analysis of 50 years and 2013 price levels were used to evaluate economic feasibility.

Table 6-223. Summary of Recreation Costs and Benefits

Total Recreation Costs**	\$5,577,000
Interest During Construction	\$289,000
Total investment	\$5,800,000
Amortized	\$289,000
OMRR&R	\$50,000
Average Annual Cost	\$339,000
Unit Day Value	\$7,26
Daily Use	200 users
Annual Use (100 users x 365 days)	73,000
Ayeruge Annual Benefit	\$529,000
Benefit to Cost	I.6 to 1
Net Annual Benefits	\$159,000

* The 50 year period of economic analysis for recreation differs from the economic period of analysis for restoration (28-years). A standard period of analysis was used for the recreation NED evolutions, while the restoration NER evolution completed in the year 2050 to remain consist with CERP.

**Cast includes anothine fill costs

This markets loads to the conclus

This analysis leads to the conclusion that there are 1.6 times the benefits than the costs. The benefit to cost ratio for the recreation features equals 1.6 to 1, with net annual benefits equaling \$159,000.

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6.4 COST SHARING

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CEPP, as part of CERP, is 50/50 cost shared for construction features and for the OMRR&R of restoration features. <u>Because the CEPP project uses State owned and operated facilities. The Corps will also pay 9.5 percent of the OMRR& R costs for these features.</u> The non-federal sponsor is responsible for 100% of the OMRR&R for recreation features. The non-federal sponsor will also provide 100% of project lands. Oscuss expectation of credits from other projects in the CERP program.

6.5 PLAN ACCOMPLISHMENTS

6.5.1 Comparison of Environmental Benefits

While the results of the NER analysis identified Alternative 4R infrastructure as providing the greatest overall benefits with the least cost per habitat unit (Section 4), operational refinements were made to Alt 4R to address potential coological impacts from lowered water depths in WCA 3B, and impacts to water supply levels of service in the Lake Okecehobee Service Area (LOSA) and Lower Sast Coast (LEC). Operational refinements were also made to address increases in low flow events to the 5t. Lucle Estuary, minimize reduction: in Ferburger to the description of the service of the se

Habitat unit results for Alternative 4R (Alt 4R) are displayed in Table 5-4. Alt 4R2 provides significant benefits within the project area. Based on the methodology that was used to quantify ecosystem benefits, the area beneficially affected by the project encompasses 966.122861,931 acres; an improvement of 282,540277,689 acres in comparison to the FWO project condition. The total target acreage for the project was determined to be 1,638,316 acres. Alt 4R,2 addresses the need to restore ecosystem function in the Caloosahatchee and St. Lucie Estuaries by reducing the number and severity of events where harmful amounts of freshwater from Lake Okeechobee are discharged into the estuaries. A reduction in the number of high volume freshwater discharges to the estuaries would help to moderate unnatural changes in salinity which are extremely detrimental to estuarine communities. Within the Greater Everglades, altered hydrology has led to degradation of the native vegetation communities, such as tree islands and sawgrass marsh mosaic and marl prairies, and the expansion of undestrable cattail monocultures. As habitats have been degraded, abundance, and diversity of wildlife populations have been affected as well. Restoration of sheetflow and historic hydropatterns within WCA 3 and ENP will result in beneficial shifts in vegetation communities, landscape patterns, and animal populations. Implementation of Alt 4R.2 would provide greater project benefits to those areas located in northern WCA 3A and ENP. Southern WCA 3A would remain largely unaffected by the project. Changes in hydrology of the freshwater systems have led to effects on the estuarine and marine environments of Florida Bay. Alterations in seasonal inflow deliveries to Florida Bay have resulted in extreme salinity fluctuations. Implementation of Alt 4R.2 would provide greater project benefits to ied in the east central, central, south and western portions of Florida Bay, improving the production of bay flora and fauna. Further information pertaining to the evaluation of Alt 4R.2 is described in Appendix G (Benefits Model).

Table 5-4. Habitat Unit Results for Alt 4R

Project-Region (Zone) Habitat Units

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Comment [baf22]: Fossibly discuss expectation of credits from other CERP projects, rather than cast or work in kind.

Comment [SFWMD23]: Provide details by each of the project areas - sed line. Blue line set. There are three sentances in this write up on Florida Bayhas it been added as a project objective?

Comment [KHW24]: Need to beef up this section. This is the justification for why we are doing this project...need Patrice to help with graphics, etc...

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	Existing Condition	FWO Condition	Alt-4R
galaga et al germania (Baseline	-	
Caloosahatchee Estuary (CE-1)	2,839	34,070	39,038
St-Lucie-Estuary (SE-1)	2,099	3,149	4,798
Total Northern Estuaries	4,938	87,219	43,836
e n ar da en last a			
Northeast WCA 3A (3A-NE)	44,451	29,634	92,606
WCA 3A Miami Canal (3A-MC)	32,847	27,373	54,746
Northwest-WGA-8A-(3A-NW)	30,970	30,266	54,198
Gentral WCA 3A (3A-C)	108,414	105,669	109,786
Southern WCA 3A (3A-5)	69,247	68,423	68,423
WCA 38 (38)	55,697	48,842	58,268
Northern ENP (ENP-N)	57,557	55,064	98,847
Southern ENP (ENP-S)	124,068	126,454	169,400
Southeast-ENP (ENP-SE)	79,711	81,062	85,116
	111	al line	-46
Total Greater Everglades	602,962	572,777	791,390
	11		
Florida Bay West (FB-W)	23,693	20,534	39,488
Florida Bay Central (FB-C)	8,205	8,205	13,948
Florida-Bay-South (FB-S)	16,614	14,659	27,364
Florida Bay East Central (FB-EC)	21,984	20,225	33,416
Florida Bay North Bay (FB-NB)	2,154	2,028	2,661
Florida Bay East (FB-E)	9,440	8,685	9,818
	this .	A Property of	
Total Florida-Bay	82,090	74,336	126,695
Total All Regions	689,990	684,332	961,921

.5.2 Contribution to Achievement of Interim Goals and Interim Targets

The Water Resources Development Act of 2000 (WRDA 2000) authorized the CERP. Section 601(h)(3)(C)(III) of that act (P.L. 106-541) required that CERP promulgate Programmatic Regulations which would include the "establishment of interim goals to provide a means by which the restoration success of the Plan may be evaluated throughout the implementation process." Section 385.38 of the CERP programmatic Regulations (33 CFR Part 385) further describes the intent and the underlying principles for establishing interim goals and a process for their development. CERP Programmatic Regulations Section 385.39 also established the requirement to develop interim targets to measure progress toward meeting other water-related needs of the south Florida region, and describes the intent, underlying principles, and the process for establishing interim targets. Recommendations for interim goals and interim targets were developed by Restoration, Coordination and Verification (RECOVER) in 2005 (RECOVER 2005). An Intergovernmental agreement signed in 2007 among the USACE, DOI and SFWMD established interim goals for CERP. An agreement establishing interim targets was also signed in 2007 between the USACE and SFWMD.

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Another requirement of the Programmatic Regulations was that each Project Implementation Report (PRI) for a CERP project describe how the project contributes to the achievement of interim goals and interim targets is. 385.56(ali3)lay). For the purposes of this PIR, the project delivery team (PDT) utilized results from the RECOVER approved performance measures, as well as information gained from additional ecological planning tools and best professional ludgment to evaluate the progress towards the interim goals and Interim targets. While many predictions towards meeting interim goals are quantitative, some are not. Coopywheen restriction traincrions are not fillings and any best be soveressed by "teends", based on our knowledge and field experience. While computer simulation model results researched here are considered to be state of the art, they can only be approximations of reality. These tools are, however, our best predictor of the substantial benefits we may realize by the implementation of CEPP. The Interim goals analyzed here are based upon the objectives of CEPP. Interim goals for Lake Okeechobee and Biscavne Bay are not included, as these two areas of the South Florida ecosystem are considered to be "kept whole" by CEPP, not necessarily enhanced. 6.5.2.1 Progress Toward Interim Targets PLACEHOLDER FOR SUMMARY OF INTERIM TARGETS TO BE PROVIDED BY BRENDA MILLS 6.5.2.2 Progress Toward Interim Goals Each of the performance measures for the CEPP planning effort were derived from those approved for use in CERP by RECOVER, Detailed information about the performance measures and the methodology that was used to quantify ecosystem benefits and support plan evaluation and selection of the TSP can be found in Appendix of Benefit Model). Further information on additional ecological planning tools (e.g., Wood Stork Foraging Potential, Allisator Production Stirability, Everiades Landscape Vegetation by for producing interim Rola. Table 5-5 is a summary of the CEPP's affects on the interim goal indicators. Most an	The state of the s	
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ole 6-3346. Progress 1	Table 6-3345. Progress Towards Meeting Interim Goals	
Northern Estuaries Indicators	interim Goals	Summary of Project Effects
1.1 American Oysters	incresse areal coverage of American oysters in the Caloozahatchee and St. Lucle estuarles	In the Caloosahatchee Estuary, while more oysters were estimated under CEPP relative to the RVO and estiting conditions baseline (EEB) at Cape Cora!, values were similar for CEPP and the FWO at the more downstream and saline Shell Point. Compared to the EEB, CEPP could account for a 7.6% increase in oyster density at Cape Coral compared to a 4.4% increase at Shell Point. In the St. Lucie Estuary, the predicted seasonal pattern for oysters was similar at Rossevelt (US-1) Bridge, although densities were an order of magnilude lower than in the Caloosahatchee (there are fewer oysters to start with). There were more oysters predicted under CEPP relative to the FWO with a 13.1% improvement.
1.2 Submerged Aquatic Vegetation	increase the areal coverage and improve the functionality of submerged aquatic vegetation in the northern estuaries	The maximum number of seagrass shoots occurred in August and September in both estudies with approximately 1.1 million shoots per acre of Holodule wirghtii (shoel grass) at Shell Point in the Caloosahacthee and approximately 2.5 million shoots per acre of Syringodium filliome (mananee grass) at Boy Scout Island near the Saint Lucie Inet. Overall shoot densities predicted under the CEP were greater than for either the EVIO or the ECB. Compared to the FWO, increases of 8.5% and 6.6% more seagrass shoots were predicted with salinithes representative of CEPP in the Caloosahatchee and St. Lucie,
1.3 Flows	Reduce high and low volume flows to the Caloosahatchee and St. Lucie estuaries	High volume flaws (>2,800 cfs) to the Caloosahatchee Estuary were reduced from 81 occurrences in the FMO to 70 with CEPP, incidences of flows too low (<450,00 cfs) decreased slightly from 27 to 24. In the St. Lucie Estuary, high flows 12,200 cfs) occurred 58 there in the FWO and 31 times with CEPP, flows tow (<350 cfs) went from 139 in the FWO to 151 with project.
Greater Evergiades Indicators	Interim Goals	Summary of Project Effects
3.1 Water Volume	Distribute water across the ecosystem in a manner that reflects natural conditions while providing for other water-related needs of the region	Akthough not always quantitative, the predictions for 3.2 Sheetflow, 3.3 Hydropatien, 3.13 Flows to northem boundaries of the water conservation areas and 3.14 Flows to Everglades National Park, below help to tell this hydrologic story.
3.2 Sheetflow in Natural Areas	Establish more historic magnitudes and directions of sheetflow in the natural areas of the Everglades	Qualitatively, there is a greater magnitude of water flowing through WCA 3A, WCA 3B and EMP with CEPs. The distribution of flow relative to target indicates a 26% and 4% improvement for WCA 3A, and EMP, respectively, incirclusion decreases by 33% in WCA 3B.

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3.3 Hydropattern	Restore the natural timing and pattern of inundation throughout the ecological communities of South Forida, including sawgrass plains, ridge and slough and martines marshes.	Restore the natural timing and pattern of In WCA 3A, the timing and inundation duration (length of time water was inundation throughout the ecological above ground improved 26% towards target. WCA 3B showed a 1.6% sowmultiles of South Forida, including improvement, in ENP, these conditions moved 48% towards target, sowgrass plains, ridge and slough and mari
3.4 System-Wide Spatial Extent of Habitat	Increase spatial extent of natural habitat	CEPP components do not increase the spatial extent of habitat; project lands are not being converted from agricultural or urban land use into natural marsh. CEPP will, however, ripprove the functionality and habitat value of 277,589 acres of Everglades frest and saftware marshes.
3.5 Everglades Wetlands Total Phosphorus	Achieve water column phosphorus concentrations of 10 micrograms per liter in the Everglades	Water quality is not a CEPP objective.
3.6 Periphyton Mat. Cover, Structure, and Composition	Restore periphyton mat cover, structure and composition that were characteristic of the spatially distinct hydroperiods (stort and long hydroperiods) and low nutrient conditions in the greater Everglades welland communities	Periphyton monitoring has shown that the continued input of above-ambient phosphronics contentrations will both increase severify of enrichment effects near canals and cause these effects to continue to cascade downstream increased input of water through restorative projects such as CEPP may increase periphyton development in areas formerly over-drained.
3.7 Ridge and Slough Pattern	Restore the historical ridge and slough landscape directionality and pattern	Restoration of the ridge slough pattern with CEPP may be highly geographically variable. Focusing flows to northwest WCA & could be advantageous from the perspective of local flow velocities. In WCA 38, only in the area within the LGF 260 restored flow lines track historical flow lines. One of the most restorable areas of the ridge-slough landscape is in southern WCA 34, where the landscape retains high elevation variance, even though the bimodal nature of that discribution has been lost. As such, the inability to meaningfully thange if the processing that the processing the standard status.
3.8 Everglades Tree Islands	improve tree Island health and maintain healthy tree Islands	CEPP is protective of existing islands in northeast. WCA 3A, and is highly protective of tree islands in Shark River Slough. Northwest WCA 3A and Shark River Slough. (SKS) are the most probable locations for the creation of new tree islands. CEP provided improved hydrologic conditions for tree islands over the PWO in northern WCA 3A, WCA 3B, and SRS.

Section 5

Overland flows are introduced into NESRs, estimated at 235,000 acre-feet per year, with CEPP features; there was no overland flow here in the PWO.	Provide more natural surface water flows to Everglades National Park	3.14 Flows to ENP
CEPP reduces point source surface water discharge from 5-8 by 205,000 acre- feet per year and spreads the water out to provide sheetflow through the western hydropattern restoration feature.	Provide more natural surface water flows to the northern boundaries of the water conservation areas	3.13 Flows to Northern Boundaries of the WCAs
In this analysis, the apple snall is used as a proxy for snall kites, due to its being virtually the exclusive food source for the kite. CEPP shows greater numbers of apple snalls in most of WCA 3A and in WCA 3B and Shark Slough in ENP.	Increase the areal extent of suitable foraging for snall kites	3.12 Snail Kite
For the wood stock, CEPP has the greatest benefit in north eastern WCA 3A and the area of the backlided Miami Canal. There is substantial improvement him oust dates of the period of record. Northern ENP, which includes some important wood stork colonies, shows the greatest decline of all the areas. CEPP has higher water levels in CNSS by as much as 30 cm which may create conditions too deep for optimal foraging. Conversely, CEPP improves foraging suitability for the wood stork in southern ENP. When CEPP and PVIO stailability scribe wood stork in southern ENP. When CEPP and PVIO stailability scribe wood stork in southern ENP. When CEPP and PVIO stailability scribe wood stork in southern ENP may become more suitable foraging habbat for wood storks, making it possible they would start nesting in this location once wood storks, making it possible they would start nesting in this location once	Increase the total number of nesting pairs, the percentage of wading bird pairs nesting in estuarine locations and the frequency of super, colony events and establish conditions, that encourage wood stocks to initiae nesting earlier in written	3.11. System-Wide Wading bird nesting patterns
Alligator production potential increases over the FWO from "6-8 years (out of a 41-year period of hydrologic record) in northern WCA 3A and around the backfilled Maim Canal. Gains in other areas (e.g., WCA 3B and ENP), while positive, are fairly negligible.	Restore more natural numbers and distribution patterns for alligators across South Florida's major freshwater and estuarine landscapes	3.10 American Aligator
Small fishes (up to "8 cm) are expected to increase in abundance over the PMO in the northern portion of WcA 34, especially in the vorbing of the additional Mami Canal, reddictions range from "7% to "30% in these areas. Of two sites in WCA 38, one shows an increased density of "7% while the second shows a sight drying. The area with the greatest lift is EMP is in northeast Shark Slough, occurring downstream of Tamieni Trail and east of the L-67 extension, with predicted small fish density rising "22% above the PMO. While quite small sites in Taylor Slough show improvement also.	increase the abundance of fish to levels that approximate those predicted for pre-dranage conditions	3.9 Aquatic Fauna Regional Populations In Greater Everglades Wetlands

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Southern Estuaries Indicators	interim Goals	Summary of Project Effects
4.1. Salinity Patterns	Reduce the intensity, duration, frequency and spatial extent of the salinty events, reetablish low salinity conditions in mainland nearshore areas, and reduce the frequency of a rapidity of salinity distutations resulting from pulse releases of fresh water from canals	Salinity indices in Florida Bay result in up to a 28% and 14% improvement, respectively over the PMO; conditions generally are better during the wet season than the dry. Spatially, conditions are better in the East Central, Central, South, and West during the war season and do improve in the East Central, South, and West during the war season.
4.2 Submerged Aquatic Vegetation	Reestablish a diverse seagrass community with moderate plant densities and more natural seasonality, and increase the percentage of Florida Bay having suitable habitat for seagrass growth	Improved salinity regimes in the Morth Bay result in a stable mixed Tholossio- Holodulie-huppia SAV community with a decrease in Tholossio and an increase in Ruppia densities over the FWO.
4.3 Juvenile Shrimp Densities	increase densities of juvenile shrimp within the various basins of Florida Bay and Biscayne Bay	Improved salicity regimes in the Central and Western Florida Bay result in less than 1% increase, (0.68% and 0.83%, respectively) in potential pink shrimp annual harvest over the FWO. As flows to Biscayne Bay are not a CEPP objective, there are no summarized project effects for Biscayne Bay.
4.4 American Crocodiles	increase the frequency of salinities less than 20 parts per thousand in Florida Bay to foster optimal growth and survival of Juvenile crocodiles	Improved salisity regimes in the North and Central Florida Bay result in an increase in the crocoile growth and survival index overall up to 7% and 14%, respectively and up to 4% and 28%, respectively during dry year conditions as compared to the PWD project condition.
4.6 Freshwater Flows to Florida Bay	increase freshwater flows to Fiorida Bay	Tidal outflows increase with CEPP by an average of 145,000 acre-feet per year.
4.7 Freshwater Hows to Biscayne Bay	increase freshwater flows to Biscayne Bay	Flows to Biscayne Bay are not a CEPP objective.
System-Wide Water Volume Indicator	interim Goal	Summany of Project Effects
5.1 Quantity of Freshwater Lost to Tide	Reduce the quantity of freshwater lost to tide	CEPP captures an estimated 85,000 acre-feet of water from being lost to tide in the Caloosaharchee and 43,000 acre-feet from the St. Lucie.

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6.5.2 Environmental Effects

6.5.2.1 Climate

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Implementation of Alt 4R would have a negligible effect on climate within the action area. Minor, localized effects to microclimate may occur as a result of redistribution of water and shifts in vegetation. Potential effects may include increases in evapotranspiration and temperature changes.

6.5.2.2 Geology and Soils

On the A 2 FEB footprint, Alt 4R would result in conversion of relatively flat, uniform agricultural lands to an FEB (4 feet maximum operating depth) with exterior levees up to 10 feet above existing grade (generally 7 to 9 feet North Atlantic Vertical Datum 1988). Alt 4R shows an increase in inundation duration over future without project (FWO/No Action Alternative) that will significantly decrease soil oxidation, subsidence and peat fires in WCA 3A. Alt 4R improves hydrologic conditions in northern WCA 3A in comparison to FWO by increasing stages and extending hydroperiods within the area (Table G-22 and Table G-24). Inundation duration for Alt 4R ranged from 76% of the period of record (POR) to 96% of the POR in northern ENP (Zone ENP N) and from 91% to 93% in southern ENP. Inundation duration for FWO within this same region varied from 78% to 83% of the POR in northern ENP and from 86% to 91% in southern ENP. Alt 4R produced significantly deeper depths than the FWO as depicted by the normalized weekly stage duration curve for IRs 129 (Figure G-38) and IR 130 (Figure G-39); example IRs for northern and southern ENP. Alt 4R also consistently reduced the frequency and duration of dry events in NESRS in comparison to the FWO (Table G-31).

6.5.2.3 Vegetation

Negligible effects on vegetation within Lake Okeechobee, the Northern Estuaries, and EAA are anticipated due to implementation of Alt 4R.—As compared with FWO, alternative 4R-shows a slight performance improvement within the Northern Estuaries as indicated by fewer high volume flow months. Reduction in high flows and accompanying flow velocities would result in lower suspended solid loading, thereby allowing greater light penetration to promote growth of submerged aquatic vegetation (SAV).—Refer to Section 4.1.3 for background and Appendix C.2.2 for a detailed comparison of patential effects to vegetation.

Many areas of WCA 3A, particularly within central WCA 3A, still contain good quality wetland habitat consisting of a complex of free islands, sawgrass marshes, wet prairies, and aquatic sloughs. Vegetation and patterning in the central portion of WCA 3A resembles pre drainage conditions most closely and represents some of the best examples of remnant Everglades habitat in south Florida. These areas remain largely unaffected by Alt 4R. Increases in depth within central WCA 3A were not as significant as increases in observed depths in northern WCA 3A; however maintenance of existing conditions within this region of the project area is desirable as ridge and slough habitat is well conserved.

The routing of flows through the marsh will likely result in the expansion of cattail vegetation in areas experiencing higher nutrient loads particularly in the northern portion of WCA 3A. Conversely, some areas directly adjacent to the Miami Canal will experience lower flows and nutrient loads under Alt 4R in comparison to the FWO condition. In southern WCA 3A, high water levels during the wet season are important in maintaining quality wet prairie and emergent slough habitat (FWS 2010). However, prolonged high water levels (i.e. during both wet and dry season) and extended hydroperiods have resulted in vegetation shifts within southern WCA 3A, negatively impacting tree islands and fragmenting sawgrass ridges, resulting in the loss of historic landscape patterning. Neither Alt 4R nor FWO would

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provide-significant-benefits to southern WCA 3A through reduction in high water-levels or duration, therefore, significant shifts in vegetation are not anticipated within this region.

Alt 4R includes conveyance features and levee removal within L 67A and C, thereby providing new point source discharges of water into WCA 38. At the end of the dry season, there is the potential for flushing of water and remobilization of nutrients within the water column, potentially affecting vegetation within WCA-38. As indicated for northern WCA-3A, mobilization and introduction of phosphorus are a notable soncern. However, it is anticipated that Broward County Water Preserve Areas (BCWPA) CERP Project would be constructed prior to CEPP implementation, thereby reducing discharges from 5-9 into L-67A. Currently, total phosphorous (TP) within L-67A ranges between 10 and 20 parts per thousand (ppt). depending upon the time of year. With completion of the BCWPA CERP Project, it is anticipated that TP loading within L 67A will be greatly reduced and thersfore minimal effects to vegetation due to changes in water quality are anticipated within WCA 38. Cattail expansion will be monitored as outlined within ex D. Tree islands contain extraordinarily high levels of TP in their soil suggesting that they may play a major role in the biogeochemical cycles of nutrients in the Everglades (Sah 2004; Troxler and Childers 2010; Troxler et al. 2009; Wetzel 2002; Wetzel et al. 2009, 2011). Wetzel et al. (2011) found that soil TP levels within WCA-3A and WCA-3B tree-islands were approximately 4 times higher than the surrounding march TP levels. Tree Islands within WCA 38 may help to capture and focus nutrients, assisting to minimize potential effects on sawgrass and wet prairie communities within this region (Wetzel et al. 20111

Flows through Shark River Slough (SRS) under current system compartmentalization and water management practices are greatly reduced when compared with pre-drainage conditions. The result has been lower-wet-ceasen depths and more frequent and severe-dry downs in sloughs and reduction extent of shallow water-deges. Over drainage in the peripheral wetlands along the eastern flank of Northeast Shark River-Slough (NSSRS) has resulted in shifts in community composition, invasion by exotic-woody-species, and increased susceptibility to fire. Implementation of CEPP is expected to rehydrate much of NSSRS by providing a moans for redistributing flows from WCA 3A and WCA 3B to SMR. Recumption of sheetflow and related patterns of hydroperiod extension will significantly help reservors pre-drainage patterns of water depths and the complex mosaic of Everglades' vegetation communities.

As compared with the FWO, Alt 40 produced significantly higher depths and inundation strations refer to Appendix G. Figure G. 38 and Figure G. 38). Within northern FNP, alternative performance was similar with all alternatives reducing the number of day events within SRS and extending average hydroperiods by 35 to 90 days depending upon location. Reduction in the number and duration of day events and extended hydroperiods will reduce soil oxidation, decrease fire potential, promote peat accretion and aid in restoration of historic wettind vegetation, communities, improved inundation patterns produced by Alt 48 in southern ENT resulted in better suitability for slough vegetation. Although none of the alternatives met the desired day and wet season water depths for slough vegetation in southern ENP, Alt 48 would provide benefits as compared with the FWO by increasing water depths in both the wet and day assessor within this region.

Alt 4R includes increasing capacity at 5-333 from 1350 cfs to 2500 cfs. With an increase in 5-333 flow, there would be a potential increase in total phosphorus loading entering NESRS. The Everglades, a phosphorus limited system, historically received most inputs of phosphorus through ranifall, with average TP concentrations of less than 0.01 milligrams per liter (mg/l.) (McCormick et al. 1996, Newman et al. 2004). However, more recently, areas within ENP, including NESRS, have been exposed to TP

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Comment [GSE26]: Barbara Cietron comment: How can this be? CEPP proposes to triple the capacity of \$-333, allowing for less possing in SE WCA-3A, yet the model thow so improvement in depth/duration of adverse high water events?

Dan (5/2). Because we are adding 20% more inflows to WCA-3A (200 kAF average annual).

Comment [baf27]: Should this be parts per

Comment [GSE28]: Barbara Cintron Comment: Where? In ENP? So it appears from the following sentence, but note that NESRS passes from WCA 3B to ENP.

concentrations at or in excess of 0.10 mg/L (SFWMD 2010). These concentrations and any additional inpute resulting from implementation of any of Alt 48 (refer to Section 4.2.9, Water Quality for details), have the potential to result in vegetation changes within NESRS. Vegetation that can assimilate nutrients directly from the water column appears to be the most sensitive to nutrient enrichment and include periphyton and floating leaved plants, such as spatterdock and water lily (chaing et al. 2000; Newman et al. 2004). Chaing et al. 2000 demonstrated that the periphyton Utricularia complex may be quite sensitive to increased phosphorus, as illustrated by the disappearance of this complex from enriched study plots after the third year. Potential effects on vegetation and species community composition within NESRS and ENP cannot fully be determined at this time. Water quality within the CEPP action area will continue to be monitored, as described in Annex D, to determine any associated changes.

Construction and hydrological modification under Alt 4R may likely influence the spread and establishment of invasive and native nuisance plant species within the CEPP action area. Refer to Section 4.2.23 and Appendix C, Section C.2.4 for additional information.

6.5.2.4 Threatened and Endangered Species

Threatened and endangered species are discussed further in Appendix C.2.2.4 and within the USFWS Biological Assessment in Annex A.

6.5.2.4.1 American Crocodile

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ARA

A Habitat Suitability Index (HSI) for juvenile American crocodiles (Crocodylus acutus) was employed to predict potential effects of the alternatives. The crocodile growth and survival index used in this analysis is one of the components of a crocodile HSI that characterizes suitable habitat for crocodiles based on habitat, location of known nest sites, salinity, and prey blomass. Results from applying the salinity data into the juvenile crocodile HSI is shown in Figure C-2-2 27 [1* croc graphic). The plot shows the lift (Alt 4R minus FWO) of an index of juvenile crocodile growth and survival at sites along the northern Florida Bay shoreline for all years of the model runs. For the four sites with the highest predicted growth and survival, Alt 4R improves habitat suitability for juvenile crocodiles.

6.5.2.4.2 Everglade snall kite

The snail kite has a highly specialized diet typically composed of apple snails, which are found in palustrine, emergent, long hydroperiod wetlands. As a result, the snail kite's survival is directly dependent on the hydrology and water quality of its habitat (FWS 1999). As compared to FWO, rehydration and vegetation shifts within northern WCA 3A and increased hydroperiods within WCA 3B and ENP would increase suitable habitat for apple snails, thereby increasing the spatial extent of suitable foraging opportunities for snail kites. The number of years that Alt 4R fell within USFWS recommended depth ranges substantially increased from FWO, therefore increasing habitat suitability for snail kites (See Table 6.2.2.1 in 6.3.2.4 or Annex A).

6.5.2.4.3 Cape Sable Seaside Sparrow (Nesting Condition and Hydroperiod)

Under FWO, current hydrologic conditions would remain the same as ECB. Implementation of Alt 4R has the potential to negatively affect hydroperiods within the mort prairies adjacent to SRS. Modeling indicates an increase in hydroperiod within CSSS E and southern portions of CSSS A. However, hydroperiods within northern CSSS A are slightly reduced as compared with FWO, providing slightly better, but overall, too wet conditions for marl prairie habitat and nesting CSSS. Slight habitat improvements were seen in CSSS F.

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6.5.2.4.4 Wood stork

An analysis of wood stork foraging potential was performed to predict improvements to foraging habitat with CEPP implementation (South Florida Natural Resources Center 2013). Results from this analysis indicate that Alt 4R provides the greatest benefit over FWO within northern WCA 3A (CEPP zones 3A NE and 3A MC). When suitability scores are compared for FWO and Alt 4R, (refer to Appendix C.2 Figure C.2.2 25) the magnitude of the scores is very similar, however, Alt 4R maintains a higher score for somewhat longer into the scason. Historically, the short hydroperiod wetlands within ENP have been important for wood stork foraging during the pre breeding season with wood storks shifting to longer hydroperiod wetlands as the dry season progresses. Hydrological patterns that produce a maximum number of patches with high prey availability. (I.e. high mater levels at the end of the wet season and low water levels at the end of the dry season) are necessary for high reproductive outputs (Gawiik 2002; Gawiik et al. 2004). Depending upon the elevation and microtopography throughout WCA 3 and ENP, implementation of CEPP Alt 4R would produce a variety of wetland habitats that would support prey densities conducive to successful wading bird foraging and nesting.

6.5.2.4.5 Eastern Indigo-snake

In Alt 4R, there is the potential for loss of upland habitat due to backfilling the Miami Canal in WCA 3A. However, with CEPP implementation upland mounds, along with the WCA 3B flowway leven would be constructed, which would potentially provide habitat for indigo snakes offsetting increased hydroperiods within WCA 3.

6.5.2.4.6 Florida manatee

As compared to FWO, Alt 4R would decrease damaging high volume flows to the Northern Estuaries. Decreased salinities within the Northern Estuaries that reduce stress on SAV and promote increases in seagrass shoots have the potential to increase foraging apportunities for manatees in this region. Similarly, increased freshwater flows to Florida Bay and the southwestern coastal estuaries would result in lowered salinity levels that better encompass seagrass salinity tolerance ranges. This lower salinity effect would also increase foraging opportunities for manatees. Alt 4R would provide benefits to Florida manatee as compared with the FWO (Refer to Section C.2.1.4.5 for further information).

6.5.2.4.7 Florida Panther

Florida panthers presently inhabit lands in ENP adjacent to the Southern Glades, and Alt 4R has the potential to affect both the Primary and Secondary Zones for Florida panther habitat. Since potentially suitable habitat occurs within the action area, increased water deliveries under CEPP Alt 4R to ENP could affect Florida panther habitat. However, as lands within the CEPP action area become restored to their more historic natural values, the simultaneously improved prey base would result in greater use by the Florida panther inhabiting these preas-

6.5.2.4.8 Smalltooth Sawfish

The smalltooth sawfish resides in the Caloosahatchee River and adjacent Charlotte Harbor estuaries; and has the potential to be found in the southern estuaries where juveniles could potentially occur and feed in red mangrove wetlands. All 4R has the potential to benefit the smalltooth sawfish by reducing excessive freshwater flows and improving the salinity regime throughout the Caloosahatchee estuary; and by increasing freshwater flows into the coastal wetlands adjoining Florida Bay, subsequently reducing the duration and occurrence of hypersaline conditions.

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6.5.2.5 Wildlife

A comparison of FWO and Alt 4R and their potential effects on wildlife within the CEPP action area are summarized below. Effects on state and federally listed species are described in further detail in Appendix C.2 and Section C.2.1.5 and Annex A. Changes in water quality also have the potential to affect prey forage base through altering of vegetation composition or structure. Water quality will continue to be monitored under CEPP; potential effects are largely uncertain at this time.

6.5.3.5.1 Invertobrates

Significant effects to the invertebrate community within Lake Okeechobee or EAA are not anticipated under Alt 4R. As compared with FWO, Alt 4R shows a slight performance improvement within the Northern Estuaries as indicated by fewer high volume flow months. Reductions in high volume discharges and salinity fluctuations would likely benefit cysters within the Northern Estuaries. In the St. Lucie Estuary increases in low flow violations during the dry season were indicated by the modeling effort. Recent cyster monitoring data during extended dry conditions in the area has shown an increase in cyster disease related to the duration and severity of high salinity conditions. Although these extreme dry spells are rare in the SLE, unlike the CRE they can occur and therefore supplemental flows during dry times may be warranted and have been accounted for in the IRLS water reservation process.

Within the Greater Everglades aquatic invertebrates would rapidly colonize newly re-hydrated areas with implementation of Alt 4R, directly benefitting aquatic invertebrates within the action area increases in stages and hydroperiods within northern WCA 3A, WCA 3B and ENP would promote wetland vegetation transition through contraction of sawgrass marshes and expansion of wet prairies, and in deeper-regions, sloughs. Submerged aquatic plants are commonly associated with sloughs providing structure for growth of periphyton, the main source of primary production within the freshwater Everglades (Gunderson 1994; Powers 2005). Periphyton is a primary component of invertebrate diets, including apple snails. In addition to the potential for increased foraging opportunities, changes in vegetation resulting in expansion of wet prairie and increases in emergent vegetation would also provide habital structure critical for apple snail aerial respiration and egg deposition (Turnet 1996; Darby et al. 1999).

Craylish are important components within the Everglades food web, serving as primary dietary components of higher trophic level species including fish, amphibians, alligators, wading birds and mammals such as raceoons and river otters (Kushlan and Kushlan 1979). Increases in hydroperiod associated with Alf 4R would likely increase craylish density within northern WCA 3A, WCA 3B, and ENP, particularly within the marl prairies. Research by Acosta (2001) revealed that craylish productivity would increase substantially if hydroperiods within the marl prairies by 3 to 4 months. Although Alf 4R would not extend hydroperiods within the marl prairies by 3 to 4 months. CEPP implementation would increase hydroperiods within this region resulting in increased native craylish productivity.

6.5.2.5.2 Fish

Implementation of CEPP is expected to significantly improve conditions for fish species throughout much of the Greater Everglades. It is predicted that with CEPP implementation the largest percent gains in daily average fish density would occur within northern WCA 3A and NESRS due to rehydration. Other areas within Shark River Slough are also expected to experience appreciable gains in fish density due to increased flows. It is also expected that regional percent changes in fish densities would be highest in SRS and southern marl prairies (17-31%) and that Taylor Slough and Florida Bay would also be expected to experience positive changes as compared with FWO (Catano and Trexier 2013, Annex 5).

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Introduction or expansion of non-native fish species due to changes in water distribution and increased connectivity within WCA-3A, WCA-3B and ENP is likely to occur; however, the extent of invasion is uncertain at this time. In contrast to FWO, new access points will be created under CEPP.

6.5.2.5.3 Amphibians and Reptiles

Significant beneficial effects to omphibian and reptile communities are anticipated with CEPP implementation. Alt 4R showed improved conditions for amphibians within WCA 3 and ENP as compared with FWO. Rehydration within previously dry areas within northern WCA 3A would increase spatial extent of suitable habitat for aquatic amphibian species in this area. Similarly, increased hydroperiods within ENP would also benefit aquatic amphibian species. As hydrology improves within WCA 3A, WCA 3B and ENP, it is expected that amphibian species richness will also change. However, declines in some amphibian species will be offset by favorable habitat conditions for other species. Increase in forage prey availability (i.e. crayfish and other invertebrates, fish) in areas rehydrated by CEPP implementation will also directly benefit amphibian and reptiles species.

A keystone species within the Everglades ecosystem, the American alligator (Alligator mississipplensis) is dependent on spatial and temporal patterns of water fluctuations that affect courtship and mating, nesting, and habitat use (Brandt and Mazzetti, 2000). Due to rehydration and decreased calinity of previously drained areas, particularly in northern WCA 3A, WCA 3B, and ENP, it is anticipated that implementation of CEPP Alt 4R would improve alligator habitat suitability as compared with the FWO. Adverse effects on alligators that utilize the Miami Canal would occur due to backfilling of the Miami Canal. However, these effects are expected to be short term as alligators will expand into other areas of suitable habitat created as a result of CEPP implementation.

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The freshwater wetlands of the Everglades are noted for their abundance and diversity of colonial wading birds. Nesting and foraging activities of resident bird species are anticipated to be significantly improved with implementation of CEPP Alt 4R. Impacts to the Cape Sable seaside sparrow, snall kite, wading birds and shore bird species are further discussed in Section 5.5.1.4 and Appendix C.2.2.4. Changes in water quality also have the potential to affect birds through alteration of vegetation composition or structure or impacts to their forage base. Water quality will continue to be monitored under CEPP and potential effects are largely uncertain at this time.

As predicted by the Trophic Hypothesis (RECOVER 2004) an increase in density of small fishes will directly benefit higher trophic level predators such as wading birds. Therefore, it is predicted that the alternatives that provide the greatest benefit to small fishes as described in Section 5.5.1.5.2 and Appendix C.2.2.5, will also perform best overall for wading birds. Crayfish are a particularly important forage resource for nesting white ihis (Eudocimus albus). Appropriate foraging conditions and crayfish densities within core foraging areas of nesting wading birds colonies can reduce foraging flight distance, thereby enhancing overall body condition. As indicated in Section C.2.2.5, invertebrates, increases in hydroperiod associated with implementation of CEPP Alt 4R would likely increase crayfish density within northern WCA 3A, WCA 3B, and ENP, particularly within the marl prairies. Depending upon the elevation and microtopography throughout WCA 3 and ENP, implementation of CEPP Alt 4R would produce a variety of wetland habitats that would support prey densities conducive to successful wading bird foraging and nesting.

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6.5.2.5.5 Mammals

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As compared with FWO, potential beneficial effects to mammals within the CEPP action area are anticipated with CEPP implementation. Small mammals including raccoons and river otters would benefit from increased crayfish and small prey fish biomass in rehydrated areas within northern WCA 3A, WCA 3B and ENP. Effects on federally listed species are described in further detail in Section 5.2.1.4 and in Section 6.2.1.5 and within Annex A.

Anticipated benefits of CEPP include improving the quantity, timing, and distribution of water delivered to ENP. The increase in water availability and rehydration within northern WCA 3A, WCA 3B, and ENP under Alt 4R will likely benefit Everglades mink (Mustela visen evergladensis) as a result of increased prey availability (forage fish).

CEPP implementation, however, may negatively affect mammals dependent upon upland habitat. Due to increased water flow and changes in water distribution it is anticipated that overdrained areas in northern WCA 3A will be rehydrated, triggering a vegetation transition from upland to wetland habitat. Although mammals occurring within the action area are adapted to the naturally fluctuating water levels in the Everglades, there is an increased patential for this vegetation transition to negatively affect mammals utilizing upland habitat. This is a particular concern for deer populations within northern WCA 3A that utilize tree islands. However, as discussed in Section C.2.1.4.4, no significant effects on tree islands within WCA 3A and ENP are anticipated to occur under Alt 4R; but, lower elevation tree islands within WCA 3B may be adversely affected. Deer populations that utilize the lower elevation tree islands within WCA 3B may suffer from habitat loss. In addition, deer that utilize levees slated for removal (L-67A, L 29, L 67 Extension) also may be adversely affected. Loss of these levees may be offset by the construction of the Blue Shanty Levee in WCA 38. Deer are highly mobile and will migrate to find suitable habitat. No significant negative effects on mammals in the remainder of the CEPP action area are anticipated under AR-4R. Changes in water quality also have the potential to affect prey forage base through altering of vegetation composition or structure. Water quality will continue to be monitored under CEPP; potential effects are largely uncertain at this time.

6.5.2.6 Essential Fish Habitat

Alt 4R has the potential to reduce the frequency and volume of high level flows from Lake Okeechobee to the Caloosahatchee River Estuary and the St. Lucie Estuary; thus reducing the potential for adverse impacts on estuarine and nearshore biota associated with Essential Fish Habitat (EFH). This is a significant improvement for those estuarine systems compared to a FWO project scenario. Alt 4R would also improve freshwater delivery to coastal wetlands and downstream estuaries in ENP and Florida Bay. Model output indicates a beneficial effect on indicator species and estuarine habitats compared to a FWO scenario. Implementation of Alt 4R would increase freshwater flows to salt water wetlands and nearshore bay areas and result in favorable changes to calinity levels. These changes may affect EFH, although effects on the aquatic resources are anticipated to be beneficial. The TSP will have no adverse effects on EFH in Lake Okeechobee, EAA, and the Greater Everglades. A more detailed analysis of the EFH can be found in Appendix C.4.

6.5.2.7 Hydrology

A summary of the anticipated hydrologic effects of Alt 4R, which was previously described in Section 5.1, is presented in Table 5.6. Alt 4R is compared to the FWO similarly, the hydrologic effects of the FWO are described based on comparison to the ECB. The summary of regional hydrologic differences includes quantitative comparisons between the ECB and FWO and between the FWO and Alt 4R based on the RSM 8N and RSM GL EEPP modeling representations of these baselines and Alt 4R. The determination

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of the directionality of hydrologic change (improvements and/or adverse hydrologic change) within each specified geographic region is principally based on the results of the esological evaluation, where available, which are described in Section 4.5.2. Alternatives 1 through 4 are separately compared to the FWO in Section 5.5.

Table 5-6. Environmental Effects of Alt 4R: Hydrology

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Geographia Region				
Łoke Okeschobe	FWO	Moderate hydrologic change, with improvements from reducing the frequency of high take stages and adverse effect from increasing the frequency of low bate stages. Significant stage reduction of 0.1-0.5 (set for the upper 75% of the stage duration curve. Number of days with stages above 16 feet NGVO is reduced from 370 to 696 during the 1955-2005 period of simulation.		
e	Alt 4R	Moderate hydrologic change, with improvements from reducing the frequency of Law bale stages and adverse effect from increasing the frequency of high lake stages. Significant stag increase of 0.25 0.50 feet for the upper 60% of the stage direction curve, occluding entreme wet hydrologic conditions. Number of days with stages above 4.6 feet NGVD is increased from 60% of 13.75 during the 1.055 2005 period of kinutation.		
	FWG	Galacahatehee Estuary: Major improvement: Mean-manthly Rows above 2800 cfs and above 4500 cfs are reduced by 13 and 10 months; respectively (14% and 13% reductions; respectively): Mean monthly Rows less than 450 cfs are reduced by 80 months (77%). St. Lucie Estuary: Major improvement. Mean-monthly Rows above 2000 cfs and above 3000 cfs and above 3000 cfs and 35% reductions; respectively:		
Northern Estudies	Alt 4R	Caleosahotchee Estuary: Moderate improvement: Mean menthly flows above 3800 cfs and 4500 cfs are reduced by 11 and 3 menths; respectively 134% and 3% reductions, respectively). Mean monthly flows less than 450 cfs are reduced by 3 months (111%). St. Lucie Estuary: Moderate hydrologic change, with improvements for high volume discharges and adverse offect for low volume discharges. Mean monthly flows above 3000 cfs and 3000 cfs are educed by 10 months and 1 months; respectively (26% and 4% reducins; respectively). Mean monthly flows less than 350 cfs are increased by 12 months (19%).		
Greater Everglades WCA-2A and-WCA- 2B	FWO	WCA-2A-(2A-37). Minor adverse effect. Stages are increased by 0.3-0.2 feet under all hydrologic conditions. WCA-18 (28-Y): Moderate adverse effect. Stages within WCA-2B are significantly increased by 0.32-0.36 feet finder print all hydrologic conditions, excluding entreme wet conditions.		
	Alt 4R	WCA-3A (2A-37): Moderate improvement. Stages are decreased by 0.1-0.3 feet under all hydrologic conditions. WCA-3B (2B-V): Moderate adverse effect. Stages within WCA-2B are significantly decreased by 0.75-0.30 feet under nearly all hydrologic conditions, excluding entreme wet conditions.		

Comment [CSE29]: Barbara Cintron Comment: Increases in high stages is an adverse effect until HIO is fixed. There is an absolute high level of 17.25 bet which cannot be exceeded for life safety risk.

Day (4/16): NHD remodistics is assumed completed in the CEPP fluture without project condition, as documented in section 2 of the main PIR report. Per first 2004 LOSS EIS, 17-25 in not published constraint but rather a performance measure for which exceedances were identified for the LOSS 2008 selected plan.

Costiment (GSE30): Berbara Cintron Continent: "minor," imajor", and "moderate" should be classed as adverse or beneficial, not left inaging like this. The reader will not result which are good and which are bad fin a table like this. This comment applies tovery row in this table.

Des (4/12). In progress. Not all hydrologic changes can be characterized as adverse or beneficial, since this characterized as adverse or beneficial, since this characterized in dependent on the collegical parameter of interest (c. tree slands, T&E species, vegetation, etc.). Effects can be characterized as moving toward or away from NSM or similar stages, but those largest are not in all cases the goal for CEPF 1 appreciates the intent of the content and will stirr to infortice treed direction where persishes.

Dreichen/Melissa, please ensure this zeme considerations is applied throughout all applicable areas in Section 4 and 5 of the PIR, as well.

Dan (4/25): Revisions completed, based on comment from Barbara and Brooks. Text added it sure of section. The distribution of directionality of hydrologic change (improvements and/or adverse hydrologic change) within each spended agranging improvement in principally hased on the results of the ecological evaluation, where available, which are described in Section 4.5.2.

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Geographic Region	Alt	Hydrology Effects
	EWG	a) - L-28 Triangle: Negligible effect.
	1 1 1	b) Northwest WCA 3A (3A NW): Negligible effect. Stages clightly increased during the
100		westers 20% of conditions
		6) - Northeast WCA 3A (3A NE): Minor to Moderate adverse effect. Stages are decreased t
		0.1-0.7 (set, with no significant change during extreme wet or extreme dry conditions.
	100	d) - East-Central WCA 3A-13A-31: Minor to Moderate adverse effect. Stages are generally
		decreased by 0.1-0.3 feet, with no significant change during extreme wet or extreme
		dry-conditions.
	2.4	e) Central WCA-3A-I3A-4): Minor to Moderate adverse effect. Stages are generally
		decreased by 0.1-0.2 feet, with no significant change during entreme wet or extreme
		dry conditions.
		I) — Southern WCA 3A (3A-28): Moderate adverse effect. Stages are generally decreased to
A track		G.2.0.3 feet, with no significant change during extreme wet or extreme dry conditions.
		g) - WCA 38 (Site 71): Minor to Moderate adverse effect. Stages are decreased by 0.1-0.2
Greater		feet during normal to dry-conditions:
vergiades:	Alt	a) - L 28 Triongle: Negligible effect
NCA-3A	49	b) Northwest WCA 3A (3A NW): Major improvement. Stages are generally significantly
and WGA		increased by 0.6-0.8 feet.
88		c) Northeast WCA-3A (3A-NE): Major improvement. Stages are increased by 0.4-0.7 feet,
		with no significant change during extreme wet conditions and a slight increase in stage
1357-61	9 1 1	for extreme deviconditions
Print NAT		d) - East-Central WCA-3A (3A-3): Major improvement. Stages are generally increased by 0.
		G.5 feet, with no significant change during the wettest 20% of conditions.
		e) - Central WCA-3A (3A-4): Minor to moderate improvement. Stages are generally
		increased by 0.1-0.2 feet during average to dry conditions, with a slight depth reduction
		during the wettest 10% of conditions and no significant change during extreme day
		conditions
古色色 計	8 - 5 - 7	I) Southern WCA-3A (3A-28): Minor improvement, Stages are decreased by 0.1-0.2 feet
		during the wettest 5% of conditions and dightly decreased during normal to day
	11 181 10	conditions
		g) WCA 38 (Site 71): Moderate to major improvement. Stages are increased under all
110		
100		hydrologic conditions, including stage increases of 0.1 feet during the upper 20% of the
	38.4	stage duration curve (wet to extreme wet conditions), stage increases of 0.2-0.3 feet f
		normal to dry conditions, and a slight stage increase during extreme dry conditions.
	EWO	a) Northwest ENP (NP 201): Minor improvement. Stages are increased by 0.1-0.2 feet
		during normal to dry conditions.
		b) Northeast ENP (NESRS-2): Minor adverse effect. Stages are slightly reduced during
a market in	1.5	normal to dry conditions.
		c) — Central ENP (P-33): Negligible offest:
A		d) Taylor Slough: Minor to Moderate Improvement. Stages are increased by 0.1-0.3 feet
ireater		during nearly-all hydrologis conditions.
verglades	Alt.	a) Northwest ENP (NP-201): Minor to moderate adverse effect. Stages are significantly
NP	48	decreased by 0.1-0.3-feet under both wet and dry hydrologic conditions; stages are
	100	slightly increased or unchanged for normal hydrologic conditions between
		approximately 35% and 55% on the stage duration curve-
1.00		b) Northeast ENP (NESRS 2): Major improvement. Stages are significantly increased by 0:
		G.9 feet under all hydrologic conditions.
4		c) Central ENP (9-33): Major improvement. Stages are increased by 0.2-0.4 feet under all
	1.	hydrologic konditions.
Salama A	3	d) Taylor Slough: Minor adverse effect. Stages are slightly decreased by approximately 9.

Comment [GSE31]: Barbara Cintron Comment: How does this affect the percentage of time water levels are too high in CSSS designated habitate?

roves ne too high in CSSS designated habitan?

Dan (4/26): Relier to Appendix C.2.2, section
C.2.1.4.2 for distance devaluation of effects to
CSSS-4, specifically IR A-2 (southern CSSS-A
region). Hydrologic effect characterization, as with
project benefits evaluation and performance
special—three effects are separately evaluated and
described.

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Geographic Region	Alt	Hydrology Effects
		feet during the wettest 20% of hydrologic conditions and slightly increased by 0.1-0.3 feet during normal to dry hydrologic conditions.
Southern	FWO	Florida Bay: Moderate adverse effect. Combined average annual overland flows from Southern ENP to Florida Bay (Transect 23) are decreased by 14,000 acre-feet (5%).
Estuaries	Alt 4R	Flerida Bay: Moderate Improvement. Combined average annual overland flows from Southern ENP to Florida Bay (Transect 23) are increased by 27,000 acre feet (11%).

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6.5.2.8 Water Quality

Table 5-7. Environmental Effects of Alt 4R: Water Quality

State to the transfer of the State of the State Outlify (WQ) is the state of the state of the state of the St			
Geographis Regions	Future Without Project (No Action Alternative)	Alt 4R Similar to FWO; slight changes to aperations not expected to result in significant WQ impacts.	
Lake Okeechobee	WQ is expected to improve relative to present conditions as the result of implementation and enforcement of TMOLs.		
Northern Estuaries	Number of low saligity events reduced for both Caloosahatchee and St. Lucie relative to baseline conditions. Number of high salinity events reduced for the Caloosahatchee Estuary. Improved nutrient and dissolved awygen conditions expected to result from reduced high flow events from take Okecehobee, improved Lake Okecehobe nutrient levels, and Improved estuary basin runoff quality.	Similar to FWO; some slight improvement in wet season water quality within the estuaries due to reduction in high flow events.	
EAA	Relative to existing conditions improvement in nutrient concentrations due to implementation of additional STAs. Slight reduction in suifate due to additional removal in STAs as well as potential reductions from reduced farming activities and future implementation of best Management Practices imposed for suifate amendments. DMSTA water quality modeling indicates that SFWMD's Restoration Strategies Program is expected to result in compliance with the 2012 WQREL for total phosphorus. However, there is risk that WQREL will not be met without future modification of the Restoration Strategies plan.	Use of A-2 FEB lands in project will slightly reduce total basin nutrient loads. Otherwise similar to FWO, increased flows from CEPP will result in a slight increase in the possibility that the 2013 WQBEL will not be met without future modification of the Restoration Strategies plan.	
Greater Everplades	Relative to baseline conditions, expect reduction in nutrient concentrations entering Everglades Protection Area due to implementation of new STAs in EAA. Reduced sulfate load expected as a result of new controls upstream in EAA. Relative to baseline conditions, increased frequency of	Increase in TP load by 10 percent into WCA 3A relative to FWO condition. Backfilling of canal will result in enhanced marsh flow and nutrient uptake in northern WCA 3A. Nutrient loads to SRS should be reduced relative to FWO despite higher flows	

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	Water Quality (WQ)	Allenda de la companya della companya della companya de la companya de la companya della company
Geographic Regions	Future Without Project (Na Action Alternative)	Alt-4R
	meeting-the-witer-quality-compliance-requirements for towahatchee, Shark River-Slough, and Taylor-Slough. This is a result of construction of additional STAs in the EAA and 50 Basin as well-as further progress on, implementation of BAMPs in developed areas adjacent to the Everglades. Mersury available, for inferthylyation is likely to increase should decrease as a result of increased the atmospheric basil from international severes. This will be moderated somewhat due to ose result the of implementation of inception of increased the state of the increased somewhat due to ose result the of implementation of inception of increased in the state of the increased somewhat due to ose result the of implementation of inception of inception of inception of increased increased in the increased increased in the increased in the increased in the increased in the increase of the increased in the increased	because of enhanced uptake within WCA-3A. With laceases in Row of 10 parcent relative to FWO, pullate loading to increase by 8 percent relative to FWO based on Lake O contribution 30 parson of WCA-2 ulfate-loading to methylation hetspots due to child in flow patients and additional suifate loading to nothern end of WCA-3A. Suifate-loading to EMP should be reduced relative to FWO due to ustake in the WCA-3A march which should discrease methylation potential in Story WCA-3A march which should discrease methylation potential in Sportings of EMP. Available potential in Sportings of EMP.
Southern Estuaries	Relative to baseline condition, slight increase in solinities in nearshore sones due to reduced flows with FMO. Nutrient leading from upland areas not expected to change significantly relative to baseline conditions.	Hg load for ALT4 R same as far FWO- improved nearthors solinity sonditions in southwest ENP due to additional flow to jis Shark River Slough. Available Hg load for ALT4 R

Comment [GSE32]: Barbara Cintron Comment: Should this not be called sulfate delivery?

6.5.2.9 Air Quality

The total inseases in air pollutants are relatively militar in relation to the existing point and nonpoint and mobile course emissions in Palm Beach, Broward, and Miami Dade Counties. Impacts <u>Effects from rejects related emissions for All 4R during constitution and during the operational phase of the CEPP project would not algorithm property of quality within the airched. Short term leadings of internationabution organic exhaust, Sasses are expected to be negligible and not pose a threat to workers or local populations. The G-370 and G-372 pumps presently have air quality emissions permits. These permits may need modification to account for the additional operations and emissions. An air quality permit will be obtained prior to the construction of the expended 5.56 pump station. Because the project is located within a designated attainment area, <u>U.S. Environmental Protection</u>, and encountered conformity rule to implement Section 176 (c) of the Clean Ali-Act does not apply, and a conformity statement should not be required. Detailed analysis is presented in Appendix C.2.2.10.</u>

6.5.2.10 Hazardous, Toxic and Radioactive Weste

Table 5-85-75-7. Environmental Effects of Alt 4R: Hazardous, Toxic and Radioactive Waste

1	Hazardous, Toxle and Radioactive Waste (H	TRW)
Goographic Regions	Future Without Project (No Action Alternative)	AR-AR
Lake Okeechobce	Increased development within basin may result in increase In new HTRW sites while existing ones should continue to be corrected.	Similar to FWO

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	Hazardous, Toxic and Radioactive Waste (H	TAW)	
Geographic Regions	Future Without Project (No Action Alternative)	Al-48	
Northern Estuaries	Increased development within Caloasahatchee and St. Lucie basins may result in increase in new HTRW sites while existing ones should continue to be corrected.	Similar to FWO	
EAA	A2 FEB lands continue to be farmed which may result in new HTRW spills on these lands as well as additional pesticide application to cultivated areas;	A2 FEB lands are converted to aquatic habitat. This will reduce the possibility of future HTRW release on these lands.	
Greater Everglades	FDEP identified HTRW sites are cleaned up and new sites are documented and eventually cleaned up. Potential for illegal-waste disposal remains high.	Similar to FWO	
Southern Estuaries	FDEP identified HTRW sites are cleaned up and new sites [1] are documented and eventually cleaned up.	Similar to FWQ	

6.5.2.11 Noice

<u>During construction of Alt 4R there would</u> For all alternatives there will be minor and short term increases in noise during construction. All alternatives <u>Alt 4R includes construction of two additional pump stations which would result in long term, localized increases in noise in comparison to FWO. Since Alt 4R adds the fewest number of pump stations (2), it would have the least effect over the FWO.</u>

6.5.2.12 Aesthetics

Alt 4R shows a significant increase in aesthetic value over the FWO due to restoration of hydropatterns and sheetflow throughout the project area. The restoration of sheetflow would provides additional habitat for native plants and animals and increased opportunities for wildlife viewing. There will would be temporary, short term, localized effects to aesthetics during construction of all features. In the Northern Estuaries, Alt 4R would increased the aesthetic value due to decreased high flow events. Reductions in high volume discharges to the estuaries would result in lower suspended solids, increased visibility water clarity and the correct salinity envelope that maintain healthy SAV beds. These benefits could also and leads to be potentialan increase in wildlife viewing opportunities. With the EAA, wetland vegetation is anticipated to colonize the A 2 FEB increasing wildlife utilization and opportunities for wildlife viewing within the area. In the Greater Everglades, while there will would be a slight negative effect on aesthetics due to the construction of the Bblue Schanty levee, there will would be an increase in aesthetics due to the creation of sheet flow in the Bblue Schanty flow way. Restoration of flows within Florida Bay and the southwestern coastal estuaries that reduce extreme salinity ranges would improve improves habitat within these regions, thereby increaseing potential opportunities for wildlife viewing as well as providing a potential for the reduction in red tide occurrences.

6.5.2.13 Land Use

The entire CEPP project area consists of lands currently under public ownership; however, the A-2 footprint is currently being leased and used for agricultural purposes.

6.5.2.13.1 Wetlands

Much of the future development within the study area is expected to occur on lands that were formerly in agricultural use. Table 5-10 <u>Table 5-97able 5-8</u> summarizes the impacts<u>offects</u> to <u>on</u> wetlands and uplands for Alt 4R. Alt 4R shows a net increase of 14,425<u>625</u> acres of wetland/upland habitat over the FWO. While there is some loss in wetlands due to the construction of some <u>CEPP</u> features, most notably the Blue Shanty levee in WCA 3B. However, the construction of other features, including the

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degradation		Tenta	tively Selected Plan	
degradation	1	and the late in the section of the s		
46		ols, reconnects and adds wetland asre the natural system. In addition to gain		
		the natural system. In addition to gain Itural land use with wetland solis to		
		he A-2 FEB would alter the land use fr		
		A 38 flow way achieves a central god		
		r long distances, and in the original fi		
		sossible to remove a similar length of		
		wetland/upland acres is provided in A		
oren muce	such acod fation of the attractions to	medanty aprona ou co to promace arm	Shriimin area	
Table 5-95-1	5-8. Impacts Effects to on Wetland	(acres) for Alt-4R		
		Alt-4R	1	
	Project Feature	Acres of Wetland Gain (Loss) (as) over		
		FWO		
	A-2 FEB	13,860	distriction consideration with	Comment [GSE33]: Barbara Cintron Co.
	L-4-Degrade	35	A section of the section	Since when is a shallow reservoir a wetland?
	Miomi Canal Backfill	417		<u> </u>
	Miami Canal Spoil Mounds	45		
	L-67A-Culverts	(-13.5)		
	6. 67C Gops	•		
	L-67G Flow Way Degrade	64		
	L-39-Degrade	46		
	Blue Shanty Levee	(-113)		
	L-67 Extension-Backfill	104		
	Old Tomiami Trail Road Degrade	34		
3 0 E 6 V	Total Net Change	14,435635		
6.5.2.13.2				
		leased for agricultural use will be com		
Mr. dinearthan		ges were noted for water stages withi		
		roct-offects to on agriculture within		Comment [dec34]: Section 5.5.1.14.2 is moderate affects to SDCS stages within LEG
Conveyance	All of the agricultural acreage is	considered unique farmland (not		Please ensure consistency of agricultural ass
Conveyance anticipated		and the second of the second o	tional-Recources	
Conveyance anticipated Coordination	with the United States Departm	sent of Agriculture (USDA) and Na		with WS/FC assessment. Savings Clause ev
Conveyance anticipated Coordination Conservation	i with the United States Departr Service (NRCS) to meet the require	ments of the Farmland Protection Polic	y Act, is ongoing.	with WS/FC assessment. Savings Clause eva conclusions should also be integrated here, v available.
Conveyance anticipated Coordination Conservation When detail	- with the United States Departr Service (NRCS) to meet the require ed design information that locates ex	ments of the Farmland Protection Polic och of the plan components is complet	cy Act, is ongoing: ed, it can then be	conclusions should also be integrated here, v
Conveyance anticipated Coordination Conservation When detail determined	n with the United States Departr Service (NRCS) to meet the require ad design information that locates or how many acres of unique farmland	ments of the Farmland Protection Polic	cy Act, is ongoing: ed, it can then be	conclusions should also be integrated here, v
Conveyance anticipated Coordination Conservation When detail	n with the United States Departr Service (NRCS) to meet the require ad design information that locates or how many acres of unique farmland	ments of the Farmland Protection Polic och of the plan components is complet	cy Act, is ongoing: ed, it can then be	conclusions should also be integrated here, v
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Conveyance anticipated. Coordination Conservation When detail determined for more inf	with the United States Departs Service (NRCS) to meet the require ad design Information that locates en how many acres of unique farmland armation. Socioeconomics Population udy area population is expected to	ments of the Farmland Protection Polic ich of the plan components is complet would be affected by the Project Sec increase by 18 percent from 2010 to	y Act, is ongeing: ed, it can then be Appendix C.4.33 - 2030 with Palm	with WSFC assessment. Savings Clause our concessions should also be integrated been, a available.
Conveyance anticipated, Coordination Conservation When detail determined for more inf 6.5.2.14 6.5.2.141 The CEPP st Beach and I	with the United States Departs Service (NRCS) to meet the require of design Information that locates et how many acres of unique farmland armation. Socioeconomics Population udy area population is expected to Alami Dade counties attracting the	ments of the Farmland Protection Polic ich of the plan components is complet would be affected by the Project Sec which have been seen that the Project Sec increase by 18 percent from 2010 to greatest number of new residents. In	y Act, is ongoing, ed, it can then be Appendix C.4.33 - 2030 with Palm Acerae County Is	conclusions should also be integrated here, available.
Conveyance anticipated. Coordination Conservation When detail determined for more inf 6.5-2.14 ft. Copy 11-1 ft. C	with the United States Departs to the County of the County	ments of the Farmland Protection Polic ich of the plan components is complet would be affected by the Project See increase by 18 percent from 2010 to greatest number of new residents. A permanent residents over the next	y Act, is ongoing ed, it can then be Appendix C.4.33 - 2030 with Palm Jorges Gounty is 20 years: When	conclusions should also be integrated here, v
Conveyance anticipated. Coordination Conservation When detail determined for more inf 6.5-2.14-1. The CEPP st Sene and -1 expected to aggregated,	with the United States Departs Service (NRCS) to meet the require de design Information that to cate et how many acres of unique farmland provides Cocleeconomics Population duy area population is expected to diami Dade counties attracting the experience a small feduction in the total population is projected to	ments of the Farmland Protection Polic ich of the plan components is complet would be affected by the Project Sec which have been seen that the Project Sec increase by 18 percent from 2010 to greatest number of new residents. In	cy Act, is ongoing ed, if can then be Appendix C.4.33 - 2030 with Palm Kentec County is 20 years. When 3 clower rate of	conclusions should also be integrated been, available. Comment [bal'35]: Revenue using and

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Section 5 Tentatively Selected Plan

6.5.2.14.3 Water Supply and Flood Control

This assessment A summary of the anticipated effects to on water supply and fleed control evaluates the anticipated environmental effects of the the alternative actions described in Section 3.0FWO and Alt 4R is presented in Table 5-10. Alt 4R is compared to the FWO; similarly, Since the final array of alternatives contained a FWO (the FWO), the other action alternatives were compared to and evaluated against the FWO to describe changes to existing conditions with implementation of each EEPP action alternative (Table 8-8). The effects of the FWO are described based on comparison to the Existing Condition Baseline (ECB), and Alt 4R is compared to the FWO, in this section, with Alternatives 1 through 4 are separately compared to the FWO in Section 4.1.14.2- Similarly, the hydrologic effects of the FWO are described based on comparison to the Existing Condition Baseline (ECB). The summary of regional bydrologic performance differences includes quantitative comparisons with between the CEPP ECB (forand the FWO) orand between the CEPP FWO and (for Alt 4R) based on the RSM BN and RSM GL CEPP madeling representations of these baselines. Alternatives 1 through 1 are separately compared to the FWO in Section 4.1.15.2.

Table 5-105-95-9. Environmental Effects of Alt 4R: Water Supply and Flood-Control

Gaographic Region	Alts	Water supply and flood control
Laks Okeeshehen	FWO	Moderate, Compared to the ECB, mean annual Lake Okeeshobee Service Area (LOSA) water supply demands not met are increased from 7th to 87th LOSA water supply exhibact percentage is increased for 7 of the 8 years with the Junget water supply subbacts.
	AB 4B	Moderate. Compared to the EWO, mean annual LQSA water synally demands not met are secrepted from SW. to SW. LQSA water supply collaborate percentage is increased for a of the S years with the largest worker supply cutbooks.
Greater Everglades	FWO	Major imprevement. Beneficial effect. Compared to the existing condition baselinesca, the frequency of WGA 34 stages within Zone A 1 the Regulation Schedule is significantly reduced from 324 to 135% of the \$455. 300 period of chimilation.
	AH AR	Moderate <u>improvement</u> . Compared to the FWO, the frequency of WEA 3A stages within Zone A of the Regulation Schedule is moderately increased from 15% to 21.5% of the 1955- 2005 period of simulation. Stages within the westess 10% of hydrologic conditions; however, are generally reduced by 0.2-0.3 feet.
Lower East Coast Service Area & (Polm Beach)	FWO	Moderately adverse compared to EEBadverse effect Moderate. 3 additional water years with 3 or more condectative months with restrictions, which result from lower-table Okceenbode stages and not local groundwatter conditions. Local groundwatter rasper east of WCA. 1 reduced by 0.2-0.5 (set for the driest 10% of hydrologic conditions. Local groundwater stages south of the Site 1 CERP project reduced by 0.2 feet for normal to dry conditions and by us to 1.0 feet during extreme dry conditions.
	Alt 4R	Miper improvement ever FWO. 2 fewer water years with 3 or more consecutive months with restrictions. No significant changes to local groundwater stages.
Lower East Coast Service Ares-2 (Broward)	FWO	Minar wargening of day conditions adverse effect Minar. I additional water year with 3 or more conscentive months with restrictions which results from lower Lake Okeechobee stages and not local groundwater conditions. Local groundwater stages slightly reduced by for the driest 101% of hydrologic conditions.
	Alt 48	Minor adverse affect. No change in the number of vister years with 3 or more consensitive mentils with restrictions. No significant changes to loost groundwater stages which are prevalent through number to any hydrologic conditions. Reduced dages are childrend during the direct 5-10% of hydrologic conditions for some monitoring gages loosted cost of WCA-3A-and VCA-3B.

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paragraph?	en vida			

Comment [baf37]: Is it beneficial or adverse? Telli us for each row in table.

Comment [GSE38]: Barbars Custran Comment: Zone A is the "Rood coastol zone." This is not a good effect, unless durations decrease. It strains the containing levees and existing gates.

Day (4/26). Please rafer to the CEPP PIR EN Appendix A (apocifically Annex A-2) for a detailed USACCE IN assessment of the high water criteris for WCA-3. Based on consideration of magnitude, densition, and thring, the EN assessment does not identify cause for high water concern.

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	FWO	Maderate to major adverse effects.
		a) 3 additional water years with 3 or more consecutive months with restrictions, which
	14 030	result from lower take Okeechobee stages and not local groundwater conditions:
		b) L-30 canal stages are reduced by 0.2-0.4 feet for normal to extreme dry conditions.
		c) L-31N canal stages are slightly reduced by 0.1-0.2 feet for extreme dry conditions
		Slight increase to in flood control stages within the wettest 10% of hydrologic conditions.
Lower East		 d) G-111 canal stages between 5-176 and 5-18G are generally lowered by 0.2-0.5 feet for normal to extreme day conditions.
Coast Service	Alt	Moderate-change, with no anticipated adverse effects.
Area-3 (Miami-	4R	a) — Decrease of 3 water years with 3 or more consecutive months with restrictions.
Dadel		b) L 30 Canal stages are increased by 0.1-0.6 feet for normal to extreme dry conditions;
7		moderate reduction of 0.1-0.2 feet for flood control stages within the wettest 10% of
		hydrologic conditions, with no significant change observed for the upper 1% of the stage
		duration curve.
		c) L 31N canal stages are increased by 0.1-0.2 during dry conditions; significant reduction
		to flood control stages within the wettest 5% of hydrologic conditions.
	B.S	d)—No significant change to C-111 canal stages between 5-176 and 5-118C during normal
		to dry hydrologic conditions, with a 0.1-0.2 ft increase during normal hydrologic conditions;
		no significant change for flood control stages within the upper 10% of the stage duration
		eure.

6.5.2.14.2 Recreation

Table 5-115-105-10. Environmental Effects of Alt 4R: Regreation

Recrestion		
Geographic Regions	Future Without Project (FWO)	
Lake Okeechobee	No Effect	No Effect
Northern Estuaries	No Effect	Reductions in high flows to the estuaries would enhance fis populations and subsequently improve related recreations opportunities such as fishing, boating and kayaking No Effect
EAA	No Effect <u>Currently no</u> recreation exists on the project site.	Currently no recreation exists on the project site so any effect would be positive for public accessine FEB feature will adapproximately 15,000 acres of recreational opportunities an recreation features similar to those in the Greater Everylades.
Greator Everglades	Recreational hunting and fishing would be offected little if at all. Hiking, Biking and Camping will not be affected directly. Any changes in recreation would be due to degraded quality of wetlands and the aesthetic values could decrease as wildlife viewing and nature study would be degraded.	Recreational fishing by boat will be negatively impacted by bac filling the Miami canal and restricting L 67C canal access. Ban fishing opportunities could be positively increased by additio of access points around proposed structures. Access for furbearer hunting (deer, hog, rabbit, etc.) could be affecte negatively by increased depth, however could benefit due to fewer closures due to dry conditions. Table 5.11 contains th number of closure events for both wet and dry conditions. Waterfowl hunting and bird watching should improve wit better hydration throughout the greater everglades during the early part of the dry season. Improved access and designation of blue and greenway trails will be positive improved hydrolog

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Recruitor		
Geographic Regions	Future-Without Project (FWO)	
		and reproduction, subsequently resulting in-greater outdoor
	i bu kanalang i	recreation-opportunities. Proposed-facilities will enhance the
		public's ability to access into and within the Greater Everglades
	A History was to be a straight.	Hunting (deer, hop, cabbit, etc.) could be affected negatively in
		the short term by increased hydration in the very northern
	Marie Sala de La Caractería de Artes de	WCA 3A areas that have been driver. Alt 4R incorporates the
		least negative effect on N-WCA-3A furbearer hunting
		opportunities, in these northern dry areas public access is often
		limited to track vehicles; rehydration will increase public access
		through improved conditions favorable to airboats.
	Mark State of the	Access to recreational fishing by power boat will be negatively
		impacted by backfilling the Miami canal. Fishing opportunities
	i jeni	throughout the Greater Everglades will be positively increased
		by the improvements in boat access and the addition of access
		points around proposed structures. The removal of the L-25
		levee will create a march connection to L 29 canal and enhance
		fishing in this canal.
		improved trail-heads for access and designation of blue and
		greenway trails will be positive. The Blue Shanty Levee will
		bisect L-6/G and cause prop-boat operators to lose access into
		the L67C north of the Blue Shanty Leves, Recreational fishing
		by boat to the northern end of 167C canal would continue to be
		available to airboats and boats that portage. The Blue Shanty
	White the second	levee will have an airboat crossing, at full helpht, so as to no
		bisect the airboat use within WGA 38. A boat rame will be
		added near 5 333 to provide access to the L-298 canal so the L
지금 기 취		289 divide structure does not prevent boat access. The 1-298
		divide structure will also serve as a podestrian and vehicle
		access to the remaining L-298. The Blue Shanty Levee wil
		serves as reroute connection for greenways trail users when
		the L-298 levee is removed to ensure contiguous connection
7111		east to west between 5333 and 5334.
	No Effect	Access-to the Southern Estuaries would not change based on
		CEPP, however, increase in flows to Florida Bay would enhance
iouthern		fish populations and subsequently improve related recreational
Stuaries		opportunities such as fishing, boating and kayaking impacts to
		existing quality of recreation will vary-depending on location
A Company		and changes to fish habitat.

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5_125-115-11 High and low stage closures for WCA-JB

High Stage Closures	Fire Closures
Percent of Scenario Days Closed No. Events	Percent of Avg. Duration Days Closed No. Events Avg. Duration
EC8 3.4 15	34.1 2.5 12 31.8
FWO 2.9 12	36.8 2.8 16 26.4
Alt4R 4.0 17	35.6 1.3 9 22.4
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6.5.2.15 Cultural Resources

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The determiniation of potential effects on cultural resources listed below (Table 5-13) have not been subject to formal consultation and therefore should not be considered final. Consultation with the State Historic Preservation Office, Advisory Council on Historic Preservation. Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida is currently ongoing (Appendix C.5). The use of the term cultural resources includes culturally significant sites and historic properties. Full preliminary analysis, including descriptions of terms is discussed in Appendix C.3.3.

Table 5-13. Environmental Effects of Alt 4Ri Cultural Resources

Geographic Regions	Future Without Project (No Action Alternative)	A+4
Lake Okeechobee (No Effect	No Effect
Northern Estuaries	No-effect	No effect
EAA, including Associated Ganals and Structures	Unknown	Unknown, survey Neededneeded
L-4 Spreader Feature	No effect	No Effect
S-8 Pump Complex (G-357, G-404, L-5 Bridge, S-8 Crane System, S-8 Pump-Station)	No effect	Major long term a <u>dverse effect</u> (adverse?). Potentially mitigated down to no effect.
L-5 <u>Deepening/Widening</u>	No-effect	Unknown, survey needed
L-6 Deepening/Widening	No effect	Unknown, survey needed
Mlami Canal	No effect	Major Long term adverse effect. Mitigation unknown.
L-67A Levee and Ganal	No affect	Potential major long term adverse offest. Potentially mitigated down to no offest.
L 67 C Levee and Canal	No effect	No Effect
l-29 Levee	No effect	Potential Major long term adverse effect. Potentially mitigated down to no effect.
	No effect	Potential major long term adverse effect. Potential mitigation down to no effect.
Now Levee/Flow-way	No affect	Potential major long term adverse effect/Unknown, survey needed, Mitiestien unknown.

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	Gultural Resources	
Geographic Regions	Future Without Project (No Action Alternative)	AILAR
Old Tamiami Trail	No effect	Major long term adverse effect. Petential mitigation down to no effect.
L-67-Ext. Levee	No-effect	No effect
L-31M	No effect	Patential Major long-term adverse effect. Patential mitisation down to no effect.
S-356	No effect	No effect
L-28	No-offect	Unknown, survey-needed
G-211 Operational Refinements	No-effect	No effect
S-334 to S335-Seepage Barrier	No-effect	Not Applicable No effect

6.5.2.16 Native Americans *** Section Incomplete for DQC***

The Microsukce Tribe of Indians of Florida and the Seminole Tribe of Florida rely upon upon the Everglades in its natural state to support their religious, subsistence, and commercial activities. The Tribes' Federal Reservation lands are either partially situated or immediately adjacent to WCA 3A (Figure C.1.14). In addition, the Miccosukee Tribe holds a perpetual lease from the State of Florida over a large portion of the WCA 3A. Subsistence activities for both Tribes include gathering of materials, hunting and fishing, while the Miccosukee Tribe's commercial activities include frogging, airboat and other guided tours, and providing recreational and tourism facilities within the Everglades Miscosukee Tribe's perspective on southern WGA 3A water stages is that flooding and degrading of tree islands was an issue prior to ERTP, which has threatened the health and safety of the Tribe (Miscosukee Tribe of Indians of Florida CEPP NEPA Response Letter 20 January 2012). Table 5-5-135-12. Environmental Effects of Alt 4R: Native Americans

Geographic Regions	Action Alternative)	A31.4R
take Okeechobee	1000	General Section (1994)
Northern Estuaries		History Control Control
64A		
Greater-Everglades		
Southern-Estuaries		

Alt-4R has the potential and likelihood for establishment and spread of non-native invasivence species (Table 5-13). Proposed restoration activities may affect ecosystem drivers that directly or indirectly influence the invasiveness of non-native species. These factors may affect invasive species positively or negatively, depending on the unique characteristics of individual species and the environmental conditions for a given biological invasion (Doren et al. 2009). For example, shortened surface water drawdowns may reduce the recolonization rates of melaleusa in sawgrass marsh while increasing habitat suitability for Old World climbing form in tree islands. Many of the areas where features are proposed are currently inhabited by non-native invasive and native nuisance species. Construction of the proposed features has the potential to spread the existing non-native invasive and native nuisance species on site as well as introduce new invasive species via contaminated equipment.

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Comment [baf39]: Native Americans *** Section Incomplete

a table that fully analysis of the impacts on the impacts on the impacts of the impacts on the impacts on the impacts of the impacts on the impacts when the impacts when the impacts when the impacts when the impacts when the impacts when the impacts of the impa

Oisturbed areas resulting from construction are likely to become established with non-native invasive and notive nuisance species. New flows created by operations of the proposed features may serve as vectors to spread invasive and native nuisance species into new areas. The large number of existing and potential invasive plant and animal species and the often incomplete knowledge of invasive mechanisms for each species create moderate to high uncertainty in this evaluation. Long term monitoring in an adaptive management framework is critical to ensure efficient management of the most threatening non-native invasive species in the restoration footprint. A more detailed description of the affects potential effects of each feature is provided in Appendin C.2.19.

1062 Table 5-145-145-14. Environmental Effects of Alt 4R: Invasive Species

apul Traditi, pagrito talla talessa apuk jek era invasiva Spocias (j. 1849). Lek jeke jaratiji jeke jeke jeke je				
Feature	Future Without Project (No Action Alternative)	Alt+48		
Lake Okeeshabee and Northern Estivaries	Actively managed invasive and nuisance species persist at baseline levels or decrease. Uncontrolled species expand; Invasion pathway to/from lake and extuarios.	Same of FWO		
A-2 Flow Equalisation Basin	Actively-managed invasive and nuisance species persist at baseline levels or decreacy Uncontrolled species expand; Vegetation-management challenges in downstream STA's from continued stormwater pulses.	invosive and nuisance plant and fish species thrive in FBI; Management options limited to mitigating impacts to FBB operations; Potential invasion pathway to WCA's.		
Diversion of L 6 Flows and L 5 Improvements	invasive and nuisance vegetation and non- native fish species persist at baseline levels	Potential reduction of SAV; Habitat improved for non-native trapical fish species.		
L 4/L 5 Spreader Canal and Levee Degradation	Moderate to high recruitment of existing invoive species in WA 2A O&MOMERS of canal/levee minimize colonization of certain invoice species.	Recruitment of some invasive and nuisance species minimally reduced; Expansion of obligate wetland invasive species in spreader canal-and-court of preader canal-precederal invasion pathway for aquatic species; Portions of ressaining leven habitat for Burnesce pythons.		
L-28 Degradation and Backfill	Actively-managed invasive and nuisones species persist in adjacent natural areas at backine levels or decrease, Uncontrolled species expand; O&MOMRR&R of canal levee will minimize colonization of certain invasive species.	Actively-managed-invasive and nuisance species persist at baseline-levels or decrease; Uncontrolled species expand-base of QRMOMRIBE or remaining lever will promote colonization of certain invasive species.		
Increase Capacity of 5-333	Actively managed invasive and nuisance species persist at baseline levels or decrease; invasion pathway for aquatic invasive-species downstream.	Same as FWG.		

Comment [tsaf41]: Please consider whether these three replacements are correct.

ROMEAN .

> CEPP Oraft PIR and EIS 6-39

	Invasive Speck Future Without Project (No Action		
Feature	Alternative)	At 40	
L-67A-Gated Structures / Spoil Removal and L- 67C Degradation	Actively managed invasive and nuisance species persist or decrease; Uncontrolled species supand; Invasion pathway for aquatic invasive species downstream	New Invasion pathway for aquatic plant and animal species between WCA 2A and 3B; increased cattal downstream of structures; plant and animal habitat reduced by spell removal -isolated remnants of L-67G will create invasive plant and animal habitat.	
Outflow Structures out of WGA-38	Invasive and nuisance species persist; barriers for water surface connectivity are present.	New invasion pathway for aquatic plant and animal species between WGA 38 and ENP.	
L-67 Extension Levee Degrade/Backfill	Invasive and nuisance species persist on levee and in canal; continued cattail expansion west of L-67 Extension.	Reduced habitat for some invasive plants, fish and reptiles by lewer removal and canal backfills improved habitat for obligate wotland invasive species.	
G-211 Operational Modifications/ Coastal Canals Conveyance	Actively managed invasive and nuisance species persist or decrease; Uncontrolled species expand; Invasion pathway for aquatic invasive species downstream.	Same os FWG.	
Increase 5-356 Capacity to 1,000 cfs	Actively-managed-invasive and nuisance species persist at baseline levels or decrease; Uncontrolled species expand.	Minimal reduction in invasive plant recruitment, improved conditions for obligate wetland invasive specker, and potential expansion of cattal in northern END.	
Miorni Backfill-S 8 to 1-75	Actively managed invasive and nuisance species persist at baseline levels or decrease. Uncontrolled species expand.	Speij mound removal/canal-backfili reduces habitat for some invasive species; Tree islands vulnerable to invasive plant and animal colonization; Expansion of obligate wetland invasive-species in backfill area.	
Build-North South-Levee in WCA-3B	Actively managed invasive and nuisance species persist at baseline levels or decrease) Uncontrolled species expand.	Potential increased invasive species due to levee construction; increased cattail along levee in WGA 38.	
L-29 degradation	Invasive and nuisance species persist; Invasion pathway for aquatic invasive species into ENP.	New invasion pathway for aquatic plant and animal species between L-29 and WGA 38.	
Divide Structure an L-29	Actively managed invasive and nuisance species persist at baseline levels or decrease; Uncontrolled species expand.	increased O&MOMRHSD management of aquatic invasive and nuisance plants.	Comment [baf42]: Please consider whell change is correct
Remove Old Tamiami-Trail	Actively managed invasive and nuisance species persist at baseline levels or pecrease; Uncontrolled species expand.	Habitat removal for many established invasive plant and animal species; expansion of obligate wetland invasive species from canal into ENP,	
Penetrating Scepage Barrier	Actively managed invasive and nuisance species persist at baseline levels or decrease; Uncontrolled species expand.	Moderate reduction in invasive plant recruitment; impreved conditions for obligate wotland invasive species.	
6.5.3 Water Q	uality		Comment [baf43]: Add water quality tex
RESPECT TO WA	IDE – MARK PLEASE ALSO REVIEW THE STER QUALITY IN TABLE 6-3 AS WELL A NAVOIDABLE ADVERSE ENVIRONMENT	CUMULATIVE EFFECTS LANGUAGE WITH S ADD ANY INFORMATION IF NEED BE TO AL EFFECTS.	
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		July 2013	

MARK TO PROVIDE	Tentatively Selected Plan	والمناز والمنافي والمحافظ والمراز والمحافر
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that are all working towards similar restoration goals.—Table 5-165 shows the net cumulative effects of the various resources which are directly or indirectly impacted. CEPP is expected to contribute to a net beneficial cumulative impact on the regional ecosystem. <u>Further information on cumulative effects can be found in Section C.2.2.2 (Cumulative Effects of TSP) in Appendix C.2.</u> 6.5.5.1 Past, Precent, and Reasonably Foreceasible Actions Affecting Resources within the Project Area Prior to drainage and compartmentalisation, the Everglades were a shallow wetland conveying water from Lake Okeechobee to the couthing coast of Florida. The Everglades Orainage District, encompassing 7,150 square miles, was created in 1907 by Florida Governor Napoleon Bonaporte Broward for the purpose of drainage and reclamation of the Everglades (high and Dinnen 1994). In the early 1900, the Everglades Orainage District constructed several canalit that impacted Lake Okeechobee and the Greater Everglades of Participal Control of the Everglades (high and Dinnen 1994). In the early 1900, the Everglades Orainage District constructed several canalit that impacted Lake Okeechobee and the Greater Everglades of Participal Control of Participal Control of Participal Control of Participal Control of Participal Control of Participal Control of Participal Control of Participal Control of Participal Control of Participal Control of Participal Control of Participal Control of Participal District also constructed 47 miles of levices around the southern rim of Lake Okeechobee Drainage District also constructed 47 miles of levices around the southern rim of Lake Okeechobee Drainage District also constructed 47 miles of levices around the southern rim of Lake Okeechobee Drainage District also constructed 47 miles of levices around the control of District Participal Control District in controlling Reading around Lake Okeechobee. Fiorida agreed to share a period of the Control District in controlling Reading around Lake Okeechobee. Fiorida agreed to		
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Although modifications to Lake Okeochobee and the Everglades began in the early 1900s, the greatest influence on the alteration of flow was the C&SF Flood Control Project, which was originally authorized by Congress in 1948. The C&SF project was designed to lower water levels east of the eastern protective levee by 4 to 5 feet (Light and Dineen 1994). Increased flood protection coupled with lowering of the water table east of the levee had a dramatic effect on urbanization and development and acted as a catalyst for a population explosion in south Florida. Between 1952 and 1954 the eastern perimeter levee along the WCAs was constructed from Palm Beach to Dade County In order to stop sheet flow from the Everglades toward the urbanizing eastern coastal areas (Light and Dineen 1994). Between 1954 and 1959 additional levees (L. 1, L. 2, L. 3, L. 4, L. 5, L. 6, and L. 7) were constructed to partition the EAA from the remainder of the Everglades and the old Everglades Drainage District Canals (West Palm Beach, Hillsboro, North New River, and Miami) were deepened within the EAA to provide better flood conveyance from the agricultural area into the WCAs (Light and Dineen 1994).

Between 1960 to 1963 substantial portions of the C&SF Flood Control project were completed. Construction of the levees surrounding WCA 3 was completed by 1963 with the L 67A levee dividing WCA 3 Into two compartments, WCA 3A and WCA 38 (Light and Dineen 1994). The L 67A levee (completed 1962) and the parallel L 67C levee (completed 1966) were originally constructed for several reasons, including as a step down system to reduce seepage to the east to allow for urban and agricultural developments in Miami Dade County, and to increase storage of water in WCA 3A to provide water supply to an expanding urban population to the east. 5 151 and 5 31 were also constructed during this time period. These two structures improved the discharge capacity of the Miami Canal to coastal communities (Cooper and Roy, 1991), further exacerbating the unnatural drainage of northern WCA 3A. In an attempt to remedy excessive drainage caused by the Miami Canal, two structures, S 339 and S 340, were built across the Miami Canal in 1980 to block water from flowing directly down the canal, except at times of extreme high water or when increased conveyance capacity is needed to deliver water for the ENP and/or the LEC. Upstream from each structure, water was expected to flow laterally from the canal into the marsh through 100 foot gaps that had been left at 500-foot intervals along the Miami Canal sidecast spoll material. In combination with the northern levees of WCA 3A (L-4 and L-5), the Miami Canal has substantially impacted historical sheetflow and natural wetland hydroperiods. As a result, during wet periods, the natural capability of WCA 3A to store water is lost and the Miami Canal effectively over drains the area. These hydrologic changes have increased the frequency of severe peat fires and have also resulted in the loss of ridge and slough topography that was once characteristic of the area. Northern WCA 3A has become largely dominated by sawgrass, cattail and scattered shrubs and lacks the structural diversity of plant communities seen in central and western WCA 3A.

Completion of the L 29 levee in 1962 led to ponding in the southern portions of WCA 3A. Exacerbating this problem were the major canal systems (i.e. Miami Canal, L 67A) which accelerate the flow of water from north to south within WCA 3A, drying the north while further ponding the south (Zaffke 1983), especially along the L 67A and L 29. As a result of this ponding, extended hydroperiods and increased water depths led to changes in vegetation communities in which wet prairies were displaced by aquatic slough communities (Zaffke 1983, Tanner et al. 1987). In addition, many tree islands within southern WCA 3A were lost due to increased water depths (Craighead 1971), with many of the remaining islands showing signs of stress. Wood and Tanner (1990) documented the trend in southern WCA 3A toward deep water lify dominated sloughs due to impoundment within the southern end of WCA 3A.

Four control structures located along the L-29 were constructed between 1960 and 1963 (5-12A, S-12B, 5-12C, and S-12 D). These structures were used to regulate discharge from WCA 3A to the western part

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of Shark River Slough (Light and Dineen 1994). Construction of the L 67 Extension levee, extending 8 miles south of Tamiami Trail, was completed in 1967 in order to facilitate water delivery from WCA 3A to ENP. Completion of the L-67A and L-67C canal and levee system intercepted water that would otherwise flow to WCA 3B. With its impoundment, WCA 3B became isolated from the rest of the Everglades with inflows and outflows limited to rainfall and levee seepage. Within WCA 3B, the ridge and slough landscape has become severely compromised by the virtual elimination of overland sheetflow and has largely turned into a sawgross monoculture where relatively few sloughs or tree islands remain. Loss of sheetflow to WCA 3B has also accelerated soil loss reducing elevations of the remaining tree islands in WCA 3B, making them vulnerable to high water stages. With the construction of WCA 3B and the L-67 Extension Levee, flows to ENP became subject to water supply deficits during the dry season and excesses during the wet season, resulting in a decline in ecological quality.

Among the first Congressional actions to offset adverse impacts to ENP by improving the supply and distribution of water, the Flood Control Act of 1968 provided for modifications to the C&SF Project through the implementation of the ENP South Dade Conveyance System (SDCS). Additional Congressional actions ensued, including the ENP Protection and Expansion Act of 1989, which expanded ENP to incorporate NESRS and the East Evergiades into the Park's boundary for protection and restoration of the natural hydrologic conditions within ENP. This Act also provided authorization for development of the Modified Water Deliveries (MWD) to ENP project. The goal of the MWD Project was to improve water deliveries into ENP and, to the extent practicable, take steps to restore the natural hydrologic conditions within ENP. The Water Resources Development Act (WRDA) of 2000 established CERP to provide for the restoration, protection and preservation of the water resources of central and southern Florida, including the Everglades and Florida Bay (USACE 1999).

CERP contains 68 components that include approximately 217,000 acres of new reservoirs and wetlands based water treatment areas. A number of operational components have also been identified in CERP and will, in most cases, occur in conjunction with related construction features. The operational features in CERP include: a modified Lake Okeechobee regulation schedule; environmental water supply deliveries to the Cajoosohatchee and St. Lucie Estuaries; modifications to the regulation schedules for WCAs 2A, 2B, 3A, 3B, and the current rainfall delivery formula for ENP to implement rain driven operations; modified Holey Land Wildlife Management Area Operation Plan; Modified Rotenberger Wildlife Management Area Operation Plan; a modification for coastal well field operations in the Lower East Coast (LEC); LEC utility water conservation; and operational modifications to the southern portion of L 31 and C 111.

CERP projects would increase the supply of freshwater for the Everglades and south Florida ecosystem Large areas within the study area would be used to increase water storage resulting from CERP Projects for the overall gain and long term benefit of the regional system. These project features would provide important storage functions and are essential to the overall restoration of the freshwater marches and the estuaries of the greater Everglades ecosystem. Project components in the area, especially storage, seepage control, and redirection of point source canal flows to overland flow will act to restore more natural freshwater flows to the northern and southern estuaries, reduce seepage losses from the Everglades, improve recharge of the Biscayne aquifer, and should result in other beneficial environmental effects.

Construction has begun on the first generation of CERP project modifications already authorized by Congress. These include the Indian River Lagoon South Project, the Picayune Strand Restoration Project, and the Site 1 Impoundment Project. The second generation of CERP projects for Congressional

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authorization includes the Biscayne Bay Coastal Wetlands Project, Broward County Water Preserve Areas Project, the Caloosahatchee River (C 43) West Basin Storage Reservoir, and the C 111 Spreader Canal Western Project. These projects will result in significant environmental benefits to the CERP project area, improving the quantity, quality, timing and delivery of water to the natural system-Further information on the above mentioned CERP projects assumed to be in the future without project conditions are provided in Section 2 (Existing and Puture Without Project Conditions).

Non-CERP projects assumed to be in the future without project condition for CEPP, which incorporate similar restoration goals of improving flow and water quality to the Everglades, include the DOI Tamiami Trail Modifications Next Steps (TTMNS) Project and the Restoration Strategies Regional Water Quality Preliminary Plan (SFWMD 2012). The DOI through the National Park Service (NPS) and ENP completed a study to evaluate the feasibility of additional Tamiami Trail bridge length, beyond that to be constructed pursuant to the MWD Project, to restore more natural water flow to ENP and Florida 8ay and for the purpose of restoring habitat within the ENP. The TTMNS project was authorized by Congress in the Consolidated Appropriations Act, 2012. The Restoration Strategies Regional Water Quality Preliminary Plan describes resulting projects developed to address water quality concerns associated with existing flows to the Everglades Protection Area (EPA) to achieve water quality standards established for the Everglades. The SFWMO is implementing a technical plan to complete six projects that will create more than 6,500 acres of new STAs and 110,000 acre feet of additional water storage through construction of ECDs.

The C&SF Project has numerous water management structures consisting of culverts, spillways, and pump stations that have specified operating criteria for managing or regulating water levels for Congressionally authorized project purposes. Regulation schedules have been, and will continue to be, designed to balance multiple, and often competing, project purposes and objectives. Managing for better performance of one objective often lessons the effectiveness of performance of competing objectives. For example, for Lake Okcechobee, higher regulation schedules tend to benefit water supply, but may increase the risk to public health and safety, and can harm the ecology of the lake. By contrast, lower lake schedules may produce lake levels more desirable for the lake ecology and improved flood protection, but reduce water supply potential.

Since April 2008, Lake Okeechobee has been operated in accordance with the 2008 Lake Okeechobee Regulation Schedule (2008 LORS). Prior to the 2008 LORS, Lake Okeechobee operations were managed under the "Water Supply and Environment (WSE) Regulation Schedule" since July 2000. The 2008 LORS operational study was initiated to address high lake levels, high estuarine discharges, estuary ecosystem conditions, and lake esology conditions that occurred during the 2003 to 2005 time period. The study considered the back to back historically significant 2004 and 2005 hurricane seasons' effects on the recognized structural integrity Issues of HHD along with effects to other project purposes. The 2008 LORS was identified to be effective at decreasing the risk to public health and safety, reducing the number of high volume discharges to the estuaries, and providing critical flexibility to perform water management operations. When it was approved, LORS 2008 was identified as an interim schedule. The USACE expected to operate under the Interim schedule until the earlier of (1) implementation of a new Lake Okeechobee schedule as a component of the system wide operations to accommodate early CERP projects (8and 1 projects) or (2) completion of the modifications to HHD.

In addition to CERP and non-CERP projects previously specified, the CEPP future without project condition includes implementation of the Everglades Restoration Transition Plan (ERTP) for WCA 3A, ENP, and the SDCS, which replaced the Interim Operational Plan (IOP) for Protection of the Cape Sable

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Tentatively Selected Plan 1259 From July 2002 through October 2012, WCA-3A was regulated according to a 1260 seasonally varying 8,75 to 10.75 feet, NGVD regulation schedule and the Rainfall Plan (initiated in 1985), as per IOP. The primary objective in implementing IOP was to adhere to a 1999 FWS Jeopardy Opinion 1261 to reduce damaging high water levels within CSSS habitat west of SRS (i.e. CSSS A). The purpose of IOP 1262 was to provide an improved opportunity for CSSS nosting by maintaining water levels below ground 1263 level for a minimum of 60 consecutive days between March 1 and July 15, corresponding to the 1264 1265 1266 1267 intended to define water management operating criteria for the C&SF project features and constructed 1268 1269 Comment [dec46]: This text may need to be revisited based on the final determination regard completion of the MWD project and the associa-timing/authority for the next operational plan. 1270 1271 species while maintaining protection for the endangered Cape Soble 1272 1273 CEPP Draft PIR and EIS 6-45 July 2013

Second of the se	and Reaconably Forecasable	Table 5-155-15. Past, Present, and Reasonably Foreseable Actions and Plans Affecting the Action Area		
	Post Addions/Authorized Plans	Gurrent Actions and Courating Plans	Reasonably Foreseeable Future Actions and Plans	
Status of Mon-CERP Projects	C&ST Project (1948) EXP, Preservicion and Sepansion Act (1989) Modified Water Deliveries (AVIO) General: Design Messonandum (GDM) and Final Environmental Impact Final Environmental Impact C 111 South Delector	MMD 56 Square Mille Area General Mechanism Fasser (1908) - MMD Transant Fast Modifications Limited Recraitation Report (1908) - MMD Standard Fast Mile Area Picklein Operating General Margo Science Mile Area Picklein Operating Gitteria Environmental Moceanism (1911) Seconde Barrier area the 1.31 H Excellibration State Limiters Products Association	Tamiam Trail Modifications New Steps (TAMUS) Project — SVAND Project MANO_Ciscoll, Septimized Barrier new Hand— 1-34 M. Sees— (Maint-bade timestone Deductic Association)	Comment (desc7): Pluckolder to NWD descent details, once guidance in provided.
Operations Plan for Lake Okeeklobes, WCA JA, END-and the Gouth Dade Conveyance System		Linke Okecehobee Regulation Schedule (1076) 2009) - <u>Erulun L</u> E Regional Water Supply Interim Han On the be replaced by <u>Percenter</u> Tradition flux 15571 Carober 2013 to execut	LORS 2008 to be replaced by revised Lake Opticable Regulation Schedule. SFWMD periodically revises the LEC Regional Water Supply Interior Dan LIOP to be replaced by Liverglades Research Translational Plant to be completed to include WWD and C-111 components.	Comment [dec8]: Updas with final MWD
		Awaising Authorization by Congress: Elecyane By Consts Weldands Project Elecyane By Consts Weldands Project Colossibilistice River (C. 43) West Bosin E. 111. Spreadle Canal Western Project Congressional Authorization Received and Congressional Authorization Received and Congressional Authorization Project Congressional Authorization Project Congressional Authorization Project Congressional Authorization Project Congressional Authorization Project Congression South Project Congression South Project Congression Project Congression Project Congression Project Congression Project Congression Project Congressional Project	Professional Control of Control o	
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	Hydrology
	Flood and water control projects have greatly altered the natural hydrology.
Present Actions	Federal and state agencies are coordinating on and implementing projects to improve hydrology.
Proposed Action	Reductions in high discharge events from Lake Okeechobee to the Northern Estuaries. Significant beneficial hydrologic effects are anticipated within the Greater Everglades through restoration of sheetflow and rehydration of previously drained areas. Improved hydrologic conditions will result from increasing depths and extending hydroperiods in WCA 3A, WCA 3B, and ENP.
Future Actions	Additional CERP projects propose to restore hydrology to more natural conditions.
Cumulative Effect	Although it is unlikely that natural hydrologic conditions would be fully restored to pre- drainage conditions, improved hydrology would occur. CERP is expected to improve the quantity, quality, timing and distribution of freshwater flow.
	Threatened and Endangered Species
Past Actions	Water management practices and urbanization have resulted in the degradation of existing habitat function and direct habitat loss leading to negative population trends of threatened and endangered species.
Present Actions	Ongoing efforts have been made by Federal and state agencies to implement projects to improve hydrology within the project area. Ongoing projects have been implemented to maintain CSSS populations. The FWS recovery plan is used as a management tool.
Proposed Action	No effect on Audubon's Crested Caracara. May affect the eastern indigo snake, Florida panther, wood stork, Everglade snall kite, Everglade snall kite critical habitat, Florida manatee, Florida crocodile, CSSS, CSSS critical habitat, and Florida Manatee.
Future Actions	Ongoing projects would be implemented to maintain threatened and endangered species within the project area. ERTP implementation represents a paradigm shift from single species to multi-species management. ERTP includes performance measures specifically directed at managing water levels and releases for the protection of multiple species and their habitats within the project area.
Cumulative Effect	Habitat improvement, monitoring and management of threatened and endangered species are anticipated to allow populations to be maintained. Improvement of degraded populations is expected to be facilitated by the restoration and enhancement of suitable habitat through efforts to restore more natural hydrologic conditions within the project area.
	Fish and Wildlife Resources
Past Actions	Water management practices have resulted in aquatic vegetation community changes and a resultant disruption of aquatic productivity and function that has had repercussions through the food web, including effects on wading birds, large predatory fishes, reptiles and mammals.
Present Actions	Ongoing efforts have been made by Federal and state agencies to implement projects to improve hydrology within the project area to restore habitat conditions for fish and wildlife resources.
Action	Negligible effects to fish and wildlife resources within Lake Okeechobee, and the EAA. Reductions in the number of high discharge events to the Northern Estuaries are anticipated to improve suitable habitat for key Indicator species such as cysters. Significant beneficial effects are anticipated within the Greater Everglades. Rehydration within previously dry areas of Was 3A, 3B, and ENP would increase the spatial extent of suitable habitat. Increases in forage prey availability (crayfish, other invertebrates, and fish) would directly benefit amphiblan, reptile, small mammal, and wading bird species. Nesting and foraging activities of resident bird species are anticipated to be significantly improved. Increased freshwater flows to Florida Bay

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	would aid in improving suitable habitat for pink shrimp, juvenile spotted seatrout, sea turtles manatee and crocodiles among other species.	
Future Actions	Some level of improvement to fish and wildlife resources is expected to occur as a result of implementation of projects with the capability of improving the timing, quantity, quality and distribution of freshwater flow to the study area. Hydrologic restoration planned as part of CERP would further improve fish and wildlife habitat.	
Cumulative Effect	Habitat improvement efforts are anticipated to benefit fish and wildlife resources.	
	Vegetation and Wetlands	
ast Action	Drainage of Florida's interior wetlands, conversion of wetlands to agriculture, and urban development has reduced the spatial extent and quality of wetland resources.	
Present Actions	Efforts are being taken by state and Federal regulatory agencies to reduce wetland losses.	Jo 1
Proposed Action	Negligible effects to vegetation within Lake Okeechobee and the EAA are anticipated. Reductions in the number of high discharge events to the Northern's Estuaries are anticipated to improve conditions for seagrass beds. Significant beneficial effects are anticipated within the Greater Evergiades. Improved hydroperiods and sheetflow within WCA 3A, 38 and EMP would result in reduced soil oxidation, promoting peat accretion necessary to rebuild the complex mosaic of habitats across the landscape. Increased freshwater flows to Florida Bay would aid to lower sainity levels, benefiting mangrove communities and seagrass beds.	could get broad broad de get got got
Future Actions	Some level of improvement to vegetative communities is expected to occur as a result of implementation of projects with the capability of improving the timing, quantity, quality and distribution of freshwater flow to the study area. More natural hydrology as part of the CERP would assist in restoring natural plaint communities.	Party of March 3
umulative Effect	While the spatial extent of natural plant communities would not be restored to historic proportions, the quality of vegetative communities would be improved.	
	Cultural Resources	
ast Actions	Flood and water control projects, conversion of wetlands into agriculture and urban development have had adverse unmitigated effects to cultural resources either directly or indirectly.	
Present Actions	Ongoing efforts have been made by Federal and state agencies to implement projects to improve hydrology within the project area, threeby stabilizing the tree islands which are known to have a high potential for cultural resources.	
Proposed Action	While effects of the proposed action have been evaluated, a final determination of effects on cultural resources is not complete. Consultation with stakeholders, including the State Historic Preservation Office, Advisory Council on Historic Preservation, Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida is currently ongoing.	
Future Actions	Continued improvement to hydroperiods and sheetflow within WCA 3A, 3B and ENP could reduce soil oxidation, which could stabilize the environment, and this in turn could stabilize tree Islands containing cultural resources. Investigations mandated in the Programmatic Agreement for ERTP are in the process of being completed and will determine the effects of	
	fluctuating water on subsurface historic properties.	
umulative Effect	fluctuating water on subsurface historic properties. Cumulative effects to historic properties and culturally significant sites will be potentially major long-term adverse effects. Mitigation measures for effects to historic properties could reduce the cumulative effect to be minor long-term adverse effects.	

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Present Actions	Efforts to improve water quality from agricultural areas are ongoing. Federal and state projects would temporarily elevate localized levels of suspended solids and turbidity.	
Proposed Action	Implementation of the proposed action would likely result in no additional exceedances of the Evergiades Settlement Agreement as compared with the current operational plan. Water quality changes potentially affects fish and wildlife resources by altering vegetation composition or structure.	
Future Actions	Aggressive actions by the State of Florida would decrease pollutent concentration and loadings to the project area. If authorized in the next Water Resources Development Act (WRDA), the Broward County WPA Project, (report approved in 2007) would reduce storm runoff deliveries to WCA 3 and Improve water quality coming across Tamiami Trail.	
	While anthropogenic effects on water quality are unlikely to be eliminated. Water quality is expected to slowly improve over existing and recent past conditions.	
	Water Supply/Flood Control	
ast Actions	Water supply and flood control for agricultural and urban users has benefited from construction and operation of the C&SF project.	
Present Actions	Availability of water from Lake Okeechobee for aericultural users were recently diminished through implementation of LORS 2008. Availability of water for urban users were recently diminished through implementation of ERTP.	
Proposed Action	Implementation of ALT 4R2 would likely have no effect on water supplies to agricultural users dependent on Lake Oksechobee. A portion of the urban users, namely LECSA 2 and 3, future supplies would increase slightly.	
Future Actions	Future supplies would not change in the future unless additional storage or hydrologic improvements to the Everglades are implemented and increase water availability.	Hy
	improvements to the evergodes are importmented and intrease water availability. While effects on water supplies are unlikely to improve, water supplies available for agricultural and urban users is expected to remain stable.	ospacia es
	to accomplate to the original consider and the original consider and the original conditions and the original conditions are the original cond	sthe capacity waters where excess himes would be corps the lorps corp the lorps c
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6.5.6 Incomplete or Unavailable Information

The analyses provided in this document are based upon current knowledge of the physical and biological conditions in the action area and on projections of the most probable future conditions, as indicated by hydrologic models. It is recognized that new technical information or models may be developed as the selected plan is implemented and that the observed results may differ from predicted results. Considering this, it may be necessary to adjust operations to address the new information or observed results to achieve better performance for environmental restoration and protection to ensure the health, safety, and well-being of the general public and affected individuals. Using an AM approach during implementation of CEPP, as documented in Annex D (Adaptive Management and Monitoring Plan), would provide new information to address uncertainties and risks over time, decrease the potential for costly mistakes, and ultimately support fulfillment of CEPPs restoration goals and objectives.

6.5.7 Unavoidable Adverse Environmental Effects

As discussed under each resource in Section 5.5-32 (Environmental Effects of Operational Refinements of the TSP) adverse effects associated with implementing Alt 4R2 are expected to be minimal to moderate. Unavoidable potentially adverse impacts that would result from implementation of Alt 4R2 include effects to the CSSS and temporary, short term impacts to air quality, the noise environment, and aesthetic resources from operation of construction equipment through lands designated for staging, access and construction. Temporary disturbances to and displacement of fish and wildlife resources to other nearby habitat would occur during construction. Vegetation would be lost during construction that currently exists on levees and spoil mounds that would be degraded and/or in areas where project features would be constructed.

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Significant beneficial effects to fish and wildlife resources are anticipated under Alt 4R2. Adverse effects to alligators that utilize the Miami Canal would occur due to backfilling of the Miami Canal within northern WCA 3A. These effects are expected to be short-term as alligators would expand into other areas of suitable habitat created as a result of CEPP implementation. Due to increased water flow and changes in water distribution, it is anticipated that overdrained areas in northern WCA 3A will be rehydrated, triggering a vegetation transition from upland to wetland habitat. Although mammals occurring within the action area are adapted to the naturally fluctuating water levels in the Everglades, there is an increased potential for this vegetation transition to negatively affect mammals utilizing upland habitat. Changes in water quality also have the potential to affect prey forage base through altering of vegetation composition or structure. Water quality will continue to be monitored under CEPP.

Non-native and invasive plant infestations in the project area may be exacerbated by soil disturbance during construction and hydrological modification. Many non-native and invasive species are flourishing in a variety of habitats and are negatively affecting the ecology throughout the Everglades. Introduction or expansion of non-native fish species due to changes in water distribution and increased connectivity between WCA 3A, WCA 3B and ENP is likely to occur; however, the extent of is uncertain at this time.

Publically owned lands are being utilized for Alt 4R2. Portions of the A-2 footprint are currently leased for purposes of agricultural production, including sugar cane. Potential adverse impacts on prime and unique farmland will be assessed during detailed design. Adverse impacts on wetland acreage would occur within WCA 3B with implementation of Alt 4R2 as a result of the construction of the Blue Shanty levee (L-67 D). This loss would be offset by improved conditions to wetland acreage elsewhere within the region. -Section 5.5-3-132.14.1 (Land Use/Wetlands) evaluates increases in wetland acreage directly

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associated with implementation of Alt 4R2. Alt 4R2 provides a net gain of wetland acreage as a result of the construction of other project features including (i.e. construction of the A-2 FEB, degradation of the L-4 levee, backfill of the Miami Canal, construction of gaps in the L-67 C levee, degradation of the L-29 levee and L-67 extension, and removal of Old Tamiami Trail).

Unavoidable patentially adverse impacts on water quality could occur with implementation of Alt 4R. Until water quality is improved, there are few apportunities to move water within the greater everglades system to achieve restoration goals. As discussed within Section 4.1.8 and Section 5.5.3.8 (Water Quality), USACE conducted a detailed water quality analysis of CEPP alternatives to determine the potential impacts of the proposed action to FWM TP concentrations and loads to SRS. Phosphorous is the primary nutrient concern for the Everglades, which historically has been a phosphorous limited system. The analysis evaluated potential changes to phosphorous loading, shift of loading, and exceedances of the Settlement Agreement Consent Decree flow weighted annual mean long term target for Shark River Slough. Based on the results of this analysis, it appears that it is likely that Alt 4R will provide lower TP concentrations for flows delivered to Shark River Slough as compared to the FWO or the existing condition. It is possible that exceedances of the Settlement Agreement SRS Long Term Limit (LTL) will still occur since the LTL is lower with Alt 4R than without it as a result of the additional flow into SRS.

6.5.8 Irreversible and Irretrievable Commitment of Resources

An Irreversible commitment of resources is one in which the ability to use and/or enjoy the resource is lost forever. An Irretrievable commitment of resources is one in which, due to decisions to manage the resource for another purpose, opportunities to use or enjoy the resource as they presently exist are lost for a period of time. Construction of the proposed project will include many features considered permanent as well as modifications to existing C&SF project features, which may be deemed irreversible. This would include project features in the EAA for storage and features in the WCAs and ENP that would change the distribution and conveyance (location, direction, depth, volume, and/or timing) of the available water. The proposed project would also include features necessary to control resulting increased seepage along the eastern boundary of WCA 3B and ENP. Such construction and structural modifications are proposed on such a large scale that these features represent an irreversible and irretrievable commitment of resources. Resources to be committed if the project is approved include expenditure of state and Federal funding, labor, energy and project materials to build, operate and maintain the proposed project.

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6.5.9 Environmental Commitments

The USACE commits to avoiding, minimizing or mitigating for adverse effects during construction activities by including the following commitments in the contract specifications:

 The contractor would be required to keep construction activities under surveillance, management, and control to avoid pollution of surface, ground waters, and wetlands. The contract specifications would require the contractor to employ best management practices (BMPs) with regard to erosion and turbidity control.

2. The contractor would be required to prevent oil, fuel, or other hazardous substances from entering the air, ground, drainage, local bodies of water, or wetlands. The contract specifications would require that the contractor adopt safe and sanitary measures for the disposal of solid wastes and would require a spill prevention plan. The contractor would also be required to transport and dispose of any construction and demolition debris in accordance with applicable requirements.

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Tentatively 6 Section S Tentatively Selected Plan 94 The contractor would be required to keep construction activities under surveillance and control 95 to minimize damage to the environment by noise and pollution of air resources. 96 4. The contractor would be required to keep construction activities under surveillance, 97 management, and control to minimize interference with, disturbance to, and damage of fish and 98 wildlife. The contractor would be required to inform the construction team of the potential 99 presence of threatened and endangered species in the work area, the need for construction 100 conservation measures, and any requirements resulting from Endangered Species Act (ESA) 101 Section 7 consultation. 102 5. The contractor would be required to take appropriate measures to protect historic. 103 archeological and cultural resources within the work area. 104 6. The contractor would be required to keep construction activities under surveillance, 105 management, and control to prevent the transfer and spread of invasive species due to 106 construction activities. The contract specifications would require the contractor to employ 107 BMPs and measures to prevent the transfer and spread of invasive species. 108 In addition, as required under WRDA 2000, the CERP Programmatic Regulations, and current USACE 109 policy, the PDT has taken the following actions: 1. The PDT has identified water to be reserved or allocated for the natural system. This 110 requirement is addressed in Annex B (Analysis Required by WRDA 2000 & State Law) of this 111 112 report. 2. The Selected Plan has been evaluated in light of its potential effects on existing legal sources of water and the level of service for flood protection. This requirement is addressed Annex B 114 (Analysis Required by WRDA 2000 & State Law) of this report. 115 3. WRDA 2000, the authorizing legislation for CERP, has now made a formal monitoring plan a 116 requirement for all CERP restoration projects. The Selected Plan includes adaptive 117 management, water quality, hydrometeorologic, and ecological monitoring activities to ensure 118 110 that the intended purposes of the project would be achieved through long term operations. 120 This requirement is addressed in Annex D (Adaptive Management and Monitoring Plan) of this 121 report. 4. In addition to the project level monitoring plan, the PDT has developed a nuisance and exotic 122 123 vegetation control plan which strives to either prevent or reduce the establishment of invasive 174 and non-native species within the project area. This requirement is addressed in Annex D 125 (Adaptive Management and Monitoring Plan) of this report. 126 5. USACE guidance interpreting the WRDA of 2007 (Section 2039), requires preparation of an 127 adaptive management plan for all ecosystem restoration projects. Adaptive management is a formal process for continually improving management policies and practices by learning from 128 129 their outcomes. In the context of CEPP, the adaptive management plan provides an approach 130 for addressing project uncertainties by testing hypotheses, linking science to decision making, 131 and adjusting implementation of the project as necessary, to improve the probability of restoration success. This requirement is addressed in Annex D (Adaptive Management and 132 133 Monitoring Plan) of this report.

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.6 PLAN IMPLEMENTATION		loate
nplementation of CEPP will occu	ir over many years and include many actions by USACE and SFWN	40. Ta mare 10"
his subsection discusses the mai-	or implementation steps that occur after Congressional authorizat	tion / / / / / W1 -
nd apprioriateion of funding for	Project construction. The Tentatively Selected Plan is composed	101 10
eatures which can be grouped	into separable elements. These separable elements are physic	ally 1 - mora ac-
eparate from other portions of	the Project and which either 1) achieves independent hydrological	ally approach to
enefits or 2) produces indepr	endent environmental or economic benefits that are separa-	and the meater of the meater o
fentifiable from those produced	by other separable Project elements. CEPP will be designed :	the greaters was
onstructed in phases, which each	construction phase containing one or more separable elements as	set The Y
orth in Section . This approach	h gives the USACE and the SFWMD maximum flexibility to develop	and o w
nplement separable elements as	agreed to by the parties. The approach incorporates the adapt	tive 15COV
	the opportunity to realize incremental restoration benefits by initi	ally Michael
uilding features that utilized exis	sting water in the system which meets State water quality standar	rds IV AVOV
he USACE and the Corps wil sele	ct particular separable elements and the sequence of such separa	and the landscape will all the landscape will be allow the landscape will be allow the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will be allowed to allowed the landscape will b
	the extent practicable and consistent with the Adaptive Managem	ent 100 -110
nd Monitoring Plan (See Anne	x D) Table 6-5 identifies one example of key project feat	ure Lawland
ependencies to be as part of each	h separable element: Figure 6-1 provides a Gantt Chart Illustrates	one one ou
ossible example of a sequencing	plan for implementation of separable elements. Individual Pro	iect 1)/UU- 17
artnership Agreements, or amer	idments to existing PPAs, will be executed prior to construction	and the supplementation of the supplementatio
ach implementation phase for r	one or more separable elements. The first task is for USACS	one lect of the System of the
	IS. After all approvals are attained, the project would be submitted	in the setter and better and bester that on sure that
ongress for authorization. After	authorization, USACE would begin preconstruction engineering .	and I I was
esign (PED). Once sufficient det	alls of design are available, the SEWMD and USACE would execut	les (CIAC) VIXV
gally binding Project Partnership	Agreement (PPA). It is possible that multiple PPAs will be executed	the IN . I with
ratch phasing of construction (se	<u>o below). SFWMO would obtain the lands, easements, rights of s</u>	way I a on TVOV.
	he end <u>completion of PED and before prior to the issuing issuance</u>	E I DINSHPC , A
	s, SFWMD would <u>and certify the LERR to LISACE</u> , and <u>the S</u> FW	MB TON CA
	<u>- binding Project Partnership Agreement (PPA).</u>	- ochs du
	tween the agencies and the required contents of a PPA are detailed	
ie CERP Master Agreement. It is i	possible the project will be split into multiple PPAs.	r in the
	a Jira ah ban Baran Kabilan 197	projects further projects full is july the way that the
	ification of LERR, the USACE would advertise and issue contracts	# 10 m - 10 1
	An operational testing and monitoring period (OTMP) would or	EEEE 1 100°
	f each feature or set of features. Upon completion of the OTMP,	the 117.69 · ·
	SFWMD for operation and maintenance. [Add a sentence here	<u>⊯</u> 1000 , γ/ι
	<u>lagement.] Regional ecosystem monitoring would be performed</u>	195 JO 11 21 AV
	ment and Management Program implemented by RECOVER. Pro	Heet 2 YMM
secific monitoring would be fund:	ed through OSEM <u>OMRRER.</u>	Lalifur
		believe that the
lost of the major steps are discus:	sed further in the following subsections:	- hour
le veneralisti beli la contra	#####################################	C-00 S1000
6.1 Preconstruction Engineering	ng and Design	INVID WO
	esign (PEO) of CEPP would begin after Congressional authorization	not LUP! 4 POIN
	ance and will be implemented in a phased approach with each ph	0.00
	le elements. PED would include site-specific surveys and geotechn	ell (Xulania
vestigations. During the design	phase, detailed analyses, subsurface and site investigations will	pe Ma O TV
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	STOR GAIL ON ALL FOR	analyse of promote and ling on pact
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Section	n.6. Tentatively <u>6</u> Tentatively Selected Plan	20157
		_plans?
	ucted to prepare construction documents. See Section 5.1 for a list of plan features to be ructed. See Appendix A and Annex C-2 of Appendix A for conceptual design plates.	
PED a	activities will be in accordance with USACE construction standards, including cultural resources	
compl	liance. Preliminary design activities, which include survey and geotechnical investigations as well	
es cult	tural resources compliance, will commence upon authorization and with SFWMD approval. The	Comment [dec50]: Text was previously stated
Engine	eering Appendix (Appendix A) represents less than 30 percents limited level of design, but	in the prior purspraph.
include	les documentation of all engineering assumptions and conceptual designs and OMRR&R cost share	
	ate owned/ State operated facilities identified to date in support of cost estimate development for	to the workers of the fi
	g-the TSP. Upon project authorization and SFWMD approval, USACE will prepare an Engineering	Comment [dec51]: Approval of what? Please
	Report updating the conceptual design and prepare initial, Intermediate and final plans and	specify.
	ications for multiple construction contract awardseach phase of construction. All work would be	Comment [baf52]: Spell out EDR
	inated and reviewed with SFWMD and reviewed and approved to ensure that the work meets	State of the state
	E standards and regulations and incorporates SFWMD design guidance, as applicable.	
JUNCE	e assistance and to feed rough and memberates at extend handle Burrance at ablurance.	
557	Construction	
	nvisioned that the project will be constructed using conventional means and methods. Multiple	
	acts will be awarded in a sequenced and phased approach. The project features werewill be	
	ptually sequenced and conceptually placed in contracts that maximize opportunities to realize	
	its with clean water already in the existing systemexisitn water that meets State water quality	
	ards, capitalize on use of onsite material, reduce multiple handling scenarios, and maintain flood	
	aros, capitalize on use or onsite material, reduce multiple nanoling scenarios, and maintain nood of operations of existing features. Adaptive Management will help with future development of the	
unbisi	mentation and sequencing	
	Construction Sequencing and Implementation Plan	
	n-aAssumptions are made to conduct any planning effort as to what the future condition of the	
	area may look like if no action is taken, referred to as the FWO project condition. It is a best guess	eS .
		features wat CE
	tion of what is likely to occur in the study area in the future. The CEPP FWO project condition	, 2 ³
	ted that certain CERP projects that are currently under construction, as well as those CERP projects have completed the planning process and are awaiting Congressional authorization, would be	10 01
		1 11
	taken. This is a projection of what the configuration of the system would be without a CEPP	, quanto
	t. With the identification of a tentatively selected plan for CEPP, the next step is to consider how	" - al 000" "
CEPPT	features would be implemented in the future (with-plan condition).	It is the sout on
	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y WOMOW .OC
	elopment of construction sequencing, a number of non-CEPP projects must be in place before	1, - aloto armico
	menting any CEPP features. Additionally, certain non-CEPP project features must be integrated	11500 200100
	ne sequencing of CEPP to avoid unintended adverse consequences as set forth in Table 6-5 below.	itis clear that as is clepended on is clepended on
	al basic principles were considered in development of an implementation plan for CEPP featurs)	I MAN CO A "
which	Include the following:	is dependent on is dependent on mon cepp project on mon cepp project on mon cepp project on mon certain in the cept of the cep
i i na ina	등에 마르게 되었다면 가고 있는데 보고 있습니다. [5] 사이트리는데 보고 있다면 하다 하다 다	1109'41 AID
	1. All features of the State's Restoration Strategies must be completed and meet state	WILLIAM O DIMAN
	water quality standards prior to initiating construction of most CEPP project features;	mu anous
	Construction of CEPP Project features cannot proceed until it is determined that	- Sic W' WHO
	construction and operation of the feature;	1 11/2110 11/11/11
: 1100	 Will not cause or contribute to a violation of State water quality standards; and 	NO" WO" W
250	b. Will not cause or contribute to a violation of any applicable water quality permit	I W T JAN
	discharge limits or specific permit conditions; and	on my way of
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	기대의 그 이번의 기업도 시민들은 연락하는 그리고 얼마나 모든 그리고 있다.	MAN The WAY
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	보는 보통, 보고 있는 보다는 보다는 보는 이번은 물로 제 열 때문에 \ \/ /////	" (Tr. 1) " " " " " " " " " " " " " " " " " "
		willing Facult The

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Section S. **Tentatively Selected Plan** c. Reasonable assurances exist that demonstrate adverse impacts on flora and fauna 228 229 in the area influenced by the Project features will not occur. 230 21) 3. Appendix A water quality compliance must be addressed for new Project water 232 entering Everglades National Park 233 Additional CEPP water quality treatment features, including operational and structural 234 modifications, may need to be constructed if State water quality standards are not met Comment [SPWMD53]: Add additional Water 235 upon operation of CEPP project features 236 Sequencing for the earliest apportunity to realize benefits, including the features that Quality Language once negotiations between the Suite and Federal Governments are complete on this 237 can provide benefits that utilize existing water meeting State water quality standards. 238 Additional outlet capacity from WCA 3A must be provided before new Project water 239 from Lake Okeechobee is released into the system 240 4.7. Location of the sources needed for Miami canal backfilling and the blue Shanty Levee to 241 minimize costs associated with double handling and stockpiling of materials 242 The Tribe has Four basic principlesals were considered in development of an implementation plan for CEPP features:

1) Econsideration of the sequencing for construction of features that provide the earliest opportunity to 243 Capacity to receive 244 realize benefits, including a features that could provide benefits with the existing volumes of water 245 inflows prior to bringing additional water from Lake Okeechobee; 2) cConsideration of any aspects of 246 247 the FWO condition that must be in place before implementing any CEPP features to avoid any detrimental or un intended adverse consequences. A La summary of the relationship of CEPP feats 249 to other projects is provided in Table 5-17); 3) Recognition that additional outlet capacity from WCA 3A released from vake Oxeechosee must be provided before bringing in additional water from take Okeechobee; 4) Consideration of the sources of fill needed for the Miami Canal backfilling and the Blue Shanty levee and sequencing the 252 construction of these features to minimize additional costs associated with stockpiling material and 253 double handling. 254 Table 6-556175-175-16. Project Dependencies and believes Dependency of CEPP Features Required prior to implementation of porthern WCA-3A distribution features (I -4 A 1 CER State Restoration Strategies de, new divide structure. S-8 Modifications, L-5 and L-6 Improvements, Miami modeling on this Canal Backfilling) to ensure adequate water quality treatment of inflows C-111 South Dade Extension of the detention area levees to connect with 8.5 Square Mile Area (SMA) required prior to significantly increasing flows to NESRS to enable operation of S-357 pump station to provide seepage management to 8.5 SMA Required prior to implementation of WCA-38 inflow structures along the L-67A&C MWD 1-Mile Bridge & issue (Ji levees or increasing flows through existing 5-333 to NESRS to ensure adequate road Road Raising protection to allow for increased stages in L-29 canal Critical BCWPA C-11 Required prior to increasing flow through 5-333 or implementation of WCA-3B inflow structures along the L-67A&C levees to ensure adequate water quality of inflows to Impoundment NESRS préase seé Tamiami Trail Next Steps Required prior to increasing capacities of yet \$-333 and \$-356 and implementation of Bridging and Road WCA-3B inflow structures along the L-67A&G levees, gaps in L-67C levee and Blue veran votes Raising Shanty flowway (L-67C removal, L-29 levee removal)

Required prior to re-directing the full 200,000 ac-ft/yr from Lake Okeechobee south to

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the FEB to avoid reduction in low flows to the St. Lucie Estuary

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IRL-S C-44 reservoir

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To begin realizing benefits from CEPP as early as possible, the first features that could be implemented are the hydropattern restoration features in northern WCA 3A and the backfilling of the Miami Canal. Construction of these features that re-distribute inflows into WCA 3A would begin to provide the benefits identified in the TSP associated with restoration of hydroperiods in northern WCA 3A, associated reduction ine the risk of muck fires, and the restoration of more natural sheetflow throughout WCA-3A. These benefits could be realized through re-distribution of existing inflows prior to bringing in any additional water from Lake Okeechobee. Implementation of these features would only occur once-after the State has completed construction of the A-1 FEB, associated with the State's Restoration Strategy for the Central Flowpath to ensure adequate water quality treatment of inflows. The specific features of the TSP to be implemented first would include the L-4 levee degrade and divide structure, the S-8 pump station modifications, the L-6 improvements, the L-5 canal improvements, the L-5-improvements and the backfilling of the Miami Canal. Figure 5-4 illustrates the construction sequencing of these features. It is important to note that the L-4 levee degrade of the L-4 levee and the L-5 canal improvements fill generated from L-5 canal improvements are a significant the primary source of fill for the backfilling of the Miami Canal, and isproviding the rationale for why these features are grouped together for implementation to avoid additional costs associated with having to stockpillinge fill and double handling of the fill material.

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E-8 Obrerpion (Chi 3)	. 83			C.,			10 10	11. 14.1				
9-5 Madifications (Cht 1)	235	74.00 C	NSHIT									
14 Degrade and Structure (Cnt. 1)	1870	0200000	STATE OF THE PARTY.	1.00	11.74%			or exercise	100			1000
1-5 Canal Improvements (CnT 1)	7.100		55 co 55	13774								Ç.,
Backfill Miamil Canal (Cnt 2)			25.800	666.00						1 100		
500 CFS Structure Worth (Cnt S)			2552		100						100.00	
1-67C 6000' Gap (Cnt 3)			32.22	1 100 1					1000			-
Increase 5-356 (Cot 4)			MANAGE	AND REAL PROPERTY.	Section.	362						
State 4se 5-335 (Cot 4)					10000	221	100		A			
1-19 Divide Structure (Cht 3)					S250.00	CSI						-
Two 500 CFS Structures (Crit 5)				A 100 C		22.5		11				
Remove 1-67C to 85 (Cot 5)	5 5 .					SCHOOL	4,000,000					5
8.5 Mile Blue Shannes Levee (Crit S)					10.00	\$60,000	Section 4					
Spell Mound Removal West L-67A (Cnl 5)						(0,335)				1 -2.03		
Remove L-29 Lerre in 85 (Crt 5)						S0007			41 10		1	
Sespage Battier L-51N (Cot 6)							N. Sant	224	3.35			
A-2758 (Crit 7)							10000000	0.00	200 X			
Remove old Terroscoi Trad (Cnt S)		2.00						S 102, 11	53202	\$30,53		
Remove 1-67 Extension (Crit S)	A 14.00		41, 211	114.11		1.00				Sec. 1	2442.525	325

Figure 6-114. Sequence of Construction Features

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Increasing water flow to NESRS and introducing water flow into WCA 3B could occur once the Broward Water Preserve Area C-11 impoundment is in-place to reduce S-9 discharges to the L67-A canal, which contributes to phosphorus loads into END through S-333. Construction of the northern most gated-culvert structure on L67A and the associated 6,000-ft degrade of L67C would allow for introducing additional inflow to WCA-3B to begin restoration of hydroperiod and reduce continued degradation and soil oxidation in 3B. Implementation of these features to provide inflows to WCA 3B will provide the opportunity to evaluate water movement within WCA 3B, determine to what extent inflows will move out to the S-355 outlet structures on the L-29 level or east where it would move out of 3B via sepage through L-30, and provide information on seepage out of WCA 3B. This implementation approach is consistent with the adaptive management approach envisioned for CERP and the incremental adaptive restoration approach; identified by the National Academy of Sciences, to incorporate opportunities to learn and reduce uncertainties and provide incremental restoration benefits as early as possible and minimize the continued degradation of the acosystem. Implementation of file-these features will require use of the existing 5-356 purps station [500-fts capacity] to manage additional seepage from

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Comment [mrd54]: Wrong figure, spoil ren is moved up with Two structures, L-29 is separa contract. Will replace with correct figure.

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and the control of th	Tentatively Selected Plan

WCA 38 which requiresand completion of the MWO Project 1 Mile Bridge and road raising Tamiami Trail Comment [baf55]: Edit this sentence. Modifications.

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Similarly, some-an increase in flows to NESRS could be realized utilizing the existing S-333 and the existing S-356 pump station once the MWD Project 1-mile Tamiami Trail Bridge and road raising Tamiami Trail Modifications project is completed, which thereby allows for the maximum operating stages in the L-29 eCanal to be raised from 7.5-ft to 8.5-ft NGVD.

increasing the capacities of the S-356 pump capacity station and increasing capacity of the S-333 structure as part of the CEPP TSP implementation would enable further increases in water flow to NESRS once-following completion of the DOI Tamiami Trail Next Steps beridging and recodway modifications Raising is completed. Significant benefit from these facilities could be realized withinto WCA 3A and NESRS from the added outlet capacity to move water out of WCA 3A to NESRS, including prior to the completion of the CEPP A-2 FEB coming on line that will provide for additional inflows to the Everglades system from Lake Okeachobee. Construction of these CEPP features will also ready the system for the additional inflows from Lake Okeechobee by providing a portion of the necessary additional outlet capacity from WCA 3A. Once the increase in 5-356 capacity is on-line to provide regulaite seepage management, construction of the Blue Shanty Flowway could be undertaken to complete the WCA 3A outlet capacity needed prior to bring inintroduction of additional water from Lake Okeechobee.

The next features to be constructed would be the A-2 FEB and the seepage barrier along L-31N, with the seepage barrier to ensure adequate seepage management would be in-place prior to moving the additional inflows from Lake Okeechobee provided by the A-2 FEB. This construction sequence would allow time for consideration of information being gathered fromer the 2-mile seepage barrier along the L-31N that was constructed by the Rock Miners, as well as any additional investigations that may be undertaken to develop detailed design for the seepage barrier feature. It should be noted that the seepage barrier feature may be constructed as part of Lake belt Mitigation prior to the implementation of CEPP. It will also allow time for completion of the Indian River Lagoon, South (IRL-S) C-44 reservoir, to be implemented to ensure there will not be any adverse effects to low flows to the Saint Lucie Estuary from re-directing water south to the FEB.

In this opetion, removal of the L-67 extension levee and modifications to the old tamiami trail are proposed as the final implementationincrement. Other options include removal of the L-67 Extension after completion of the Tamlami Trail Next Steps Bridging and Road Raising and removal of a portion of Old Tamiami trail at any time during implementation. Removal of the L-67 Extension levee and modifications to the old Tamiami Trall could be constructed upon completion of the seepage barrier<u>are</u> proposed as the final implementation increment.

6.6.4 Operational Testing and Monitoring Period

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As defined in the CERP Master Agreement, the term "Operational Testing and Monitoring Period" (OTMP) shall mean a reasonable, limited period of time within the period of construction, after physical construction has been completed, during which the authorized CERP Project or a functional portion of the authorized CERP Project is operated, tested and monitored to verify that the constructed features perform as designed, and to allow for any adjustments to such features as may be necessary so that such features perform as designed.

Prior to initiating OTMP, each major operational component will undergo a short period of testing and commissioning. During this period, functional performance tests will be conducted on all features. Tests

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the testing and corseason (i.e. June 1 should be extended uring the OTMP we control of exotic vendor/menufacturs essions; and assigned activities of requirements of t conducting water nouring OTMP the identify any featur operating as design At the conclusion of as to whether the last of the conduction of the conducti	odes of operation and will verify all other relevant contract requirements. Foll mmissioning, operational testing and monitoring will be conducted for one fut to November 30), if the OTMP begins after the start of a wet season, the das needed to encompasts a full wet season. Contractor services to be proviil include, but will not be limited to, the following: vegetation management inc. 5, answering questions on equipment operation; contacting the approre for response or site visits; arranging and officiating supplemental owner tracting in resolution of functionality issues. The operational testing and monithe construction contractor will be separate from and supplemental to the wather contract. The CorpulSACE and SFWMD will share in the responsibilitinanagement operations during OTMP. Federal Government and the non-Federal sponsor will work together closers which that are not operating as designed. Any features which that a need will be identified in writing to the District Engineer and the non-Federal sponsor will make a determine for OTMP, the District Engineer and the non-Federal sponsor will make a determine Project is "operational" as defined in the CERP Master Agreement. Upon contractors.	il wet OTMP OTMP OTMP OTMP OTMP OTMP Useling priate alning toring rranty es for ely to e. not onsor, nation lestion
	eature(s) will be transferred to SFWMD for OMRR&R. Regional exosystem moni is part of the CERP Adaptive Assessment and Management program implement	
RECOVER. Project	specific monitoring and vegetation maintenance will be funded through ON ination, the non-Federal sponsor shall operate, maintain, repair, replace	RR&R Comment [SFWMD57]: Move this so
rehabilitate the Pro	Heet-]	Comment [dec58]: is this level of der for the PIR, as it seems more suited for the
PIR/EIS. Developme of the Project I/OR) and general (IOR) and general Operational Testin Maintenance (ORM Maintenance (ORM Maintenance ORM Maintenance ORM PhaseOTMP. This Longlong-term Operation of the IORM ORM MAINTENANCE OF THE OPERATION OF T	ext Operating Manual (POM) has been prepared and is included in Annex C. to ent of the POM will involve an iterative process that will continue throughout to exact part POM includes operating criteria based on the initial operating right growth of the process that will continue throughout to exact part of the process that transitions to operations during the Sconstruction Pohase and Monitoring PhasesPeriodOTMP, and the tenglong-term Operation of Pohases. Refinements to the operating criteria will be made as more design department of the process of the phases. A Prelie will be prepared and approved for the Operational Testing, and Monivill be prepared and approved for the Operational Testing, and Moniville process of the Pohases of	he life egime g, the s and ctalls, scient, life POM, and she main PIR regan loft terminology, the 10th bar of been of the ind the d the d the attlin, E and
The CEPP AM and CEPP implementation objective of the AM tune performance is	Janagement and Monitoring Monitoring Plan (Annex D) Identifies the monitoring information needed to i ion and restoration progress to agencies, the public, and Congress. The c I and Monitoring Plan is to focus resources on continued refinement of CEPP to in the face of inevitable uncertainties, based on existing knowledge and know through monitoring and assessment.	verall o fine-
unat will be gained i		

1	Section 6 Tentatively-6 Tentatively-9 Tentatively Selected Plan
professional descriptions	A fundamental principle of AM is that a project can be adjusted to continually achieve high performance toward the project's goals and objectives and- <u>reduce or eliminate unintended consequences. To remain within its constraints.</u> In particular, in AM the adjustments are not "trial and error", which can be costly and erratic, but rather they are based on a scientifically efficient and sound process of learning from data. These adjustments should be viewed as intelligently fine-tuning the project <u>elements, design and the implementation sequencing clain</u> , the need for which is almost inevitable in a large-scale, long-term restoration projects in CERP; this is one reason why adaptive management plans are a required Pix element for CERP projects. Given this fundamental principle of AM, the CEPP AM and Monitoring Plan provides suegestions are always the CEPP feasible and necessary. The suggestions are abased on current

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The CEPP selected plan will be designed and constructed in phases with each construction phase containing one or more separable elements. This adaptively managed implementation approach will maximize opportunities to realize incremental ecosystem restoration benefits and minimize or eliminate unintended consequences. The CEPP Selected Plan provides the USACE and the SFWMD with maximum flexibility to develop and implement separable elements as agreed to by the parties. The USACE and SFWMD will select particular separable elements and the sequencting of such separable elements to maximize benefits to the extent practicable and consistent with the Adaptive Management and Monitoring Plan.

experience and knowledge and are provided for discussion: they are not required actions, nor are they

meant to limit agencies from considering other options.

During formulation of the CEPP Adaptive Management Plan (Annex D), several potential management actions designed to address CEPP uncertainties were developed. Potential environmental effects of implementation of the majority of the AM management options were analyzed within Sections 4.1 and 5.1 and in Appendices C.2.1 and C.2.2 of this document. However, the seven adaptive management actions described below, if they are to be implemented to address CEPP uncertainties, require additional NEPA analysis. Potential environmental considerations of these management actions are described in detail below.

AM Action: Design hydropattern restoration feature to allow testing of restoration potential and degree of success with and without vegetation management downstream of structure.

Design of the hydropatterns restoration feature in northwest WCA 3A provides an opportunity to utilize adaptive management to address the uncertainties regarding restoration of water flows and levels throughout WCA - #A. Environmental Considerations: Experimental design to include vegetation management downstream of 1-mile section of Hydropattern Restoration Feature (HRF) to Improve sheetflow and getaway capacity; vegetation management will not be employed downstream of the remaining 1-mile section. Vegetation management downstream of the hydropatterns restoration feature in northwest WCA 3A may include burning, herbicide treatment or scarring of existing Burning could have potential effects on water quality due to potential increase or mobilization of nutrients. -Mobilization of nutrients may result in short-term increases in primary productivity directly benefitting foraging fish and invertebrates, followed by increased foraging opportunities for higher trophic levels. The loss of woody vegetation within the managed area would result in loss of perch sites for foraging birds; however, perch sites would likely be available in the unmanaged area. Removal of woody vegetation in northwest WCA 3A coud promote water flow southwest, providing sheetflow south and west of the Miami Canal and minimize water depths and durations that are potentially too deep for the Sawgrass plains in northeastern WCA 3A would low, thereby increasing water depths and durations within downstream benefits as described within Sections 4.1.3 and 4.1.5. Nuisance vegetation management would also aid

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to reduce monocultures, provides foraging, resting and shelter for native wildlife and removes competition for resources with native flora and fauna.

AM Action: Partial Removal of the Remaining Length of the L-67 Extension Levee and/or Canal System; also Old Tamiami Trail Removal to see how much it affects flow and hydroperiod goals. Environmental considerations: Removal of Old Tamiami Trail and L-67 Extension Levee and Canal will would require USACE to perform an analysis in accordance with Section 404 (b)(1) guidelines for CEPP, a 404B permit due to work and fill within wetlands. If this AM action was to be employed, all necessary permits analysis would be acquired prior to implementation of the action. —In addition, the Old Tamiami Trail is a cultural resource and as such coordination with State Hillistoric Preservation Office will be required. While operational changes associated with this feature are covered by CEPP modeling, the model does not "see" Old Tamiami Trail as a barrier to sheetflow; however, benefits not captured by the modeling will be provided in the form of enhanced sheetflow and rehydration of areas south of Old Tamiami Trail. These benefits are similar to those already outlined in Section 4.1.7. Removal of L-67

AM Action: To increase flows out of WCA 3B, dig a shallow canal to connect to remnant agricultural

Extension will provide benefits to CSSS-A by removing barriers to flow south of the S-12s directing water

Environmental Considerations: USACE will need to perform an analysis in accordance with Section 404 (b)(1) guidelines for CEPP. A 4048 permit for dredge and fill within wetlands would be required. If this AM action was to be employed, all necessary permits analysis would be acquired prior to implementation of the action. —Collector canals would improve the ability of S-355A and S-355BB to convey water from WCA 3B to NESRS, which would assist in reducing potential ponding and inundation of lower elevation tree islands. This would also reduce potential effects to cultural resources and wildlife dependent upon upland habitats within WCA 3B. During construction, temporary short-term affects to water quality will be managed with implementation of best management practices (BMPs) as required by Florida Department of Environmental Protection (FDEP). Upon completion of construction, it is anticipated that water quality entering SRS will improve as a result of flow through WCA 3B marshes. This may assist with reducing TP loads.

AM Action: Modify the agricultural canals in the flowway.

eastward and away from the western marl prairies (Section 4.1.4).

Removing the spoil mounds and backfilling the Blue shanty (north south) canal would increase project benefits by removing barriers to sheetflow, and would provide water quality benefits by allowing water to flow through the marsh eliminating any short circuiting/drainage through the north south canal. Additionally, removing the agricultural canals could help offset some of the environmental effects from the proposed new levee in WCA 3B.

Environmental Considerations: <u>USACE will need to perform an analysis in accordance with Section 404 (b)(1) guidelines for CEPPA 404B permit for dredge and fill within wetlands would be required.</u> If this AM action was to be employed, all necessary <u>permits—analysis</u> would be acquired prior to implementation of the action. —Improving agricultural canals will improve the ability of S-355A and S-355BB to convey water from WCA 3B to NESRS, which would assist in reducing potential ponding and nundation of lower elevation tree islands. This would also reduce potential effects to cultural resources and wildlife dependent upon upland habitats within WCA 3B. During construction, temporary short-term affects to water quality will be managed with implementation of best management practices (BMPs) as required by Florida Department of Environmental Protection (FDEP). —Upon completion of

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	nstruction, it is anticipated that water quality entering SRS will improve as a result of flow through A 3B marshes. This may assist with reducing TP	
Δħ	1 Action: Extend Decompartmentalization Physical Model (DPM) test 4 more years.	
	vironmental Considerations: Coordination with FDEP would be required. Environmental effects are	
	tailed in the DPM EA (USACE 2010) and are hereby incorporated	
	p.//www.evergladesplan.org/pm/projects/docs 12 wca3 dpm ca.sspx. Based on previous Section 106 insultation on DPM, these features were not described to last over two years. Therefore, Section	the second second second
	souration on DPM, these reatures were not described to last over two years. Therefore, Section consultation would need to be re-initiated for this feature.	Comment [CT62]: As required by CFR &
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	Action: Use vegetation management to reduce vegetative resistance to water flow downstream	The state of the second
	L-67A new structures S-3450 & G. Vironmental Considerations: Vegetation management may include burning, herbicide treatment or	
	rring of existing vegetation. Burning could have potential effects on water quality due to potential	a Carrierania
inc	rease or mobilization of nutrientsMobilization of nutrients may result in short-term increases in	
	mary productivity directly benefitting foraging fish and invertebrates, followed by increased foraging	
	portunities for higher trophic levels. The loss of woody vegetation within the managed area would ult in loss of perch sites for foraging birds; however, perch sites would likely be available in the	
	nanaged area. Removal of woody vegetation would facilitate sheetflow, thereby increasing water	
de	oths and durations within downstream areas and providing benefits as described within Sections	
	.3 and 4.1.5. Nuisance vegetation management would also aid to reduce monocultures, provides	
	aging, resting and shelter for native wildlife and removes competition for resources with native flora I fauna	
	Action: C-11 Extension gapping.	
	of t gaps will be made North and South of the C-11 canal by pushing spoil into canal every 1000 ft.	
	rironmental Considerations: <u>USACE will need to perform an analysis in accordance with Section 404</u> (1) guidelines for CEPPA 4048 permit for dredge and fill within wetlands would be required. If this	
	action was to be employed, all necessary permits analysis would be acquired prior to	
	slementation of the action. —Burning could have potential effects on water quality due to potential	
	rease or mobilization of nutrients. Mobilization of nutrients may result in short-term increases in many productivity directly benefitting foraging fish and invertebrates, followed by increased foraging	
	portunities for higher trophic levels. The loss of woody vegetation within the managed area would	
res	ult in loss of perch sites for foraging birds; however, perch sites would likely be available in the	
	nanaged area. Removal of woody vegetation would facilitate sheetflow, thereby increasing water	
	oths and durations within downstream areas and providing benefits as described within Sections 3 and 4.1.5. Nuisance vegetation management would also aid to reduce monocultures, provides	
	aging, resting and shelter for native wildlife and removes competition for resources with native flora	
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	.7 Flood Plain Management and Flood Insurance Programs Compliance	
	. Non-Federal Sponsor agrees to participate in and comply with applicable Federal floodplain	
	nagement and flood insurance programs consistent with its statutory authority.	
ar.		
	t less than once each year, the Non-Federal Sponsor shall inform affected interests of the extent of tection afforded by the authorized CERP Project.	
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The Non-Federal Sponsor shall publicize flood plain information in the area concerned and shall provide this information to zoning and other regulatory agencies for their use in preventing unwise future development in the flood plain and in adopting such regulations as may be necessary to prevent unwise future development and to ensure compatibility with protection levels provided by the authorized CERP Project.

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The Non-Federal Sponsor shall comply with Section 402 of WRDA 1986, as amended (33 U.S. C. 701b-12), which requires a non-Federal interest to have prepared, within one year after the date of signing a Project Partnership Agreement for the authorized CERP Project, a floodplain management plan. The plan shall be designed to reduce the impacts of future flood events in the Project area, including but not limited to, addressing those measures to be undertaken by non-Federal interests to preserve the level of flood protection provided by the authorized CERP Project. As required by Section 402, as amended, the non-Federal interest shall implement such plan not later than one year after completion of construction of the authorized CERP Project. The Non-Federal Sponsor shall provide an information copy of the plan to the Government upon it preparation.

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The Non-Federal Sponsor shall prescribe and enforce regulation to prevent obstruction of or encroachment on the authorized CERP Project or on the lands, easements, and rights-of-way determined by the Government to be required for the construction, operation, maintenance, repair, replacement, and rehabilitation of the authorized CERP Project, that could reduce the level of protection the authorized CERP Project affords, hinder operation or maintenance of the authorized CERP Project, or interfere with the authorized CERP Project's proper function.

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PROJECT ASSURANCES SUMMARY

553 554 555 Congress enacted the Water Resources Development Act of 2000, Section 601, Comprehensive Everglades Restoration Plan (WRDA 2000). Section 601(h) of WRDA 2000, entitled "Assurance of Project Benefits" establishes project-specific assurances to be addressed as part of CERP implementation.

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Savings Clause Analyses

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The Savings Clause analysis is listed in WRDA 2000 as a means to assure project benefits. Specifically, Section 601(h)(5) of WRDA 2000, entitled "Savings Clause", requires an analysis of each project's effects on legal sources of water that were in existence on the date of enactment of WRDA 2000 (i.e., December 2000) and effects on levels of service of flood protection in existence on the date of enactment of WRDA 2000. Specifically, Section 601(h) (5) of WRDA 2000 identifies water for the following uses to be evaluated:

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an agricultural or urban water supply;

565 566 allocation or entitlement to the Seminole Indian Tribe of Florida under section 7 of the Seminole Indian Land Claims Settlement Act of 1987 (25 U.S.C. 1772e);

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the Miccosukee Tribe of Indians of Florida:

568 569 570 water supply for Everglades National Park; or

571 572 water supply for fish and wildlife.

also requires evaluation of flood protection to ensure that implementation of the Plan shall not reduce levels of service for flood protection that are in existence on the date of enactment of this Act; and in accordance with applicable law.

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Project Assurances

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section 5

Section 601(h) (4) (A) of WRDA 2000, entitled "Project-Specific Assurances", requires project implementation reports among other items to:

i. identify the appropriate quantity, liming, and distribution of water dedicated and managed for the natural system

i. identify the amount of water to be reserved or allocated for the natural system necessary to implement under State law

following analysis of the model results, the results and conclusions will be reported in this section, ontribution to interim goals and targets may be in this section (or moved to Plan Accomplishments)

8 VIEWS OF NON-FEDERAL SPONSOR

1 PROJECT CONCERNS AND CONTROVERSERIES

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Tentatively Selected Plan of Model Plan Accomplishments)

Tentatively Selected Plan of Model Plan Accomplishments and distribution of water dedicated and managed for the natural system necessary to implement under State law.

To identify the amount of water to be reserved or allocated for the natural system necessary to implement and example of the model results, the results and conclusions will be reported in this section.

To identify the amount of water to be reserved or allocated for the natural system necessary to implement under State law.

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The National Academy of Sciences has recommended the implementation of CERP through an incremental adaptive restoration (IAR) process. CEPP has adopted that recommendation and has formulated a solution for an increment of overall restoration of the South Florida ecosystem. incidentally, there are problems and opportunities remaining. CEPP is not meeting all targets of the pre-drainage Everglades, however does provide for significant and substantial restoration of ecosystem and achieves approximately 2/3 of the additional water flow that CERP envisioneds.

e Water Levels in Water Co BA.WCA BA

Raising water levels in and distributing water across Northern WCA 3A is paramount to reestablishing a 500,000-acre flowing system through the northern most extent of the remnant Everglades, however; adverse impacts to mammals dependent upon upland habitat could occur due to increased water stages and changes in water distribution in northern WCA BA

White tailed deer occur widely in Florida; they Elarida's 417 618

622 both 523 Compared to other areas of Florida 624 Everglades WMAs are not considered to 625 prime deer habitat and support relatively low 626 deer population numbers and 627 contingent of sportsmen that hunt dee 629 and have publicly voiced concern 630 impacts to the deer herd in Northern WCA 3A 631 from raised water Invols due to CEPP. 632 concerns over deer impacts. 633 questions have been raised over potential impacts from higher ssibility in WCA 3A resulting from vel and airboat closures and to existing leased hunt

Comment [SFWMD63]: Need to reword this ection to m

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				ion of WCA 3A and led to			
of ridge and	slough habitat, t	he thinning of s	awgrass stands, and the	Iomination and/or-replace	ment of		
				vegetation changes have			
				nds of the Everglades, whi			
have been-	driven out. The	e carrying capa	city of the deer popula	lion is influenced by fact	ors that		
				higher ground and the an			
nutritious fe	rage on those or	eas largely influ	ence the carrying capaci	y of the Everglades door I	rerd. If		
the environ	ment can no long	er sustain the p	opulation, the habitat d	egrades, herd health decin	nes, and		
the populat	ion suffers. The	current-dry hyd	rologic pattern in WCA-	3A has enabled the dear	herd to		
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when wet of deer would utilize tree islands as places of refuge during higher water events, but predonged low water levels in the worthern WCA 3A	Number of Tree	655 Aeres of Tree					
when wet en Historically, deer would utilize tree islands as places of refuge during higher water events, but prolonged low-water levels in the northern WCA 3A prosulted in	Number of Tree	655 Aeres of Tree					
when wet ei Historically, deer weekd utilize tree islands as places of refuge during higher water levels in the northern WCA JA resulted in tree sland	Number of Tree	655 Aeres of Tree					
when wet e) Historically, deer would utilize tree utilize tree utilize tree utilize tree utilize tree utilize tree utilize uti	Number of Tree	655 Aeres of Tree					
when-wet-ei- Historically, deer-wayld utilize-tree islands-as places of refuge during higher events, but preclonged low-water levels in the northern WCA-3A resulted in tree island destruction (see-Table)	Number of Tree	655 Aeres of Tree					
when wet el Historically, deer waste uitlize-tree islande as places of refuge during higher water events, but protonged law water levels in the morthern WCAJA resulted in receisland destruction (see Table) through fires that	Number of Tree	655 Aeres of Tree					
when wet el Historically, deer would utilize tree istanda as places of refuge during higher water events, but protonged law water levels in the northern WCA JA resoluted destruction (see Table) through fires that	Number of Tree	655 Aeres of Tree					
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when wet an Historically; deer would utilize free utilize free utilize free industrial and utilize free industrial and utilize free water ovents, but protonged low-water evels in the northern WCA-3A resulted in the cisland destruction (see Table) through free that	Number of Tree	555 Acces-by-Free Islanda	ies-esuled.		Wy 2013		
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when wet an Historically; deer would utilize free utilize free utilize free industrial and utilize free industrial and utilize free water ovents, but protonged low-water evels in the northern WCA-3A resulted in the cisland destruction (see Table) through free that	Number of Tree	555 Acces-by-Free Islanda	p Draft PIR and EIS		wy 2013		

Section 5 Tentatively 6 Tentatively Selected Plan substantial 656 The loss of peat and lower ground surface elevation on volume of 657 the tree islands resulted in water-depths that are too ban tona deep-for-shrub and tree-recolonization when higher 658 leafy water levels prevailed, and a majority of the tree islands 659 vegetation 660 in Northern WCA 3A have been lost. In lieu of suitable that 661 refuge on tree-islands, deer have adapted to occupying typically would not 660 the higher elevation and foraging on the less nutrient burn when 663 rich-vegetation of the levees and spoil mounds as places water levels 664 of refuge during high water events. When high water are higher. 665 conditions are sustained for extended times, forage is Coverage 866 substantially-reduced and deer feed upon plants of 1940 24,795 1005 8,604 887 lower nutritional value. Deer die offs occasionally 576 KAR occurred under these conditions. Historical estimates show that starvation losses could be in excess of 30% of the herd-In the early 1980's a particularly high water event prompted a "mercy kill" of almost 1,000 deer from the 5,500 strong door herd that existed in the Everglades. Public outery over the event led to substantial changes in deer management when Governor Graham resolved that the deer herd would be managed in a manner that prevents the herd from rapidly expanding during extended low water conditions. Consequently, when a mid 1990's water event exceeded that of the 1980's event, a smaller deer herd managed in accordance with the carrying capacity of the Everglades required supplemental feeding but there was no "mercy kill" or catastrophic deer die off-Table Error! No text of specified style in document. In Tree Islands of WCA3 1940-1995 Totals Project Effects: While the carrying capacity is extremely difficult to estimate and variable from area to area and year to year, the hydrologic changes resulting from CEPP is anticipated to reduce the overall population of deer in WCA 3A. Decreased recreational access due to more frequent and extended high water events is expected to result as deer management protocols are implemented that restrict access to Northern WCA 3A. Conversely, greater access will be provided due to reduced fire hazards caused by extreme dry conditions that currently limit access to Northern WCA 3A that will be alleviated with CEPP. Specific CEPP impacts to deer populations and recreational opportunity include: ed duration of water above ground in Northern WCA-3A

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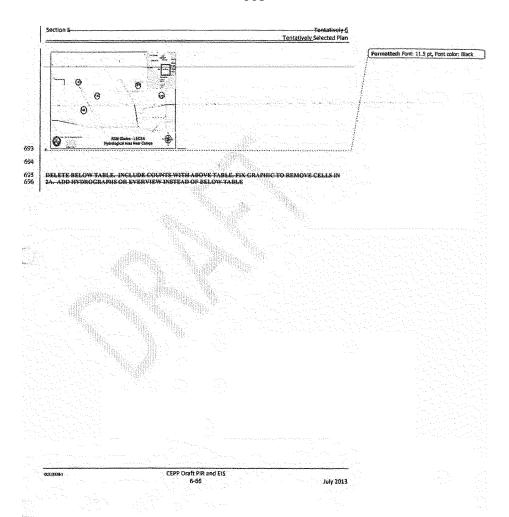
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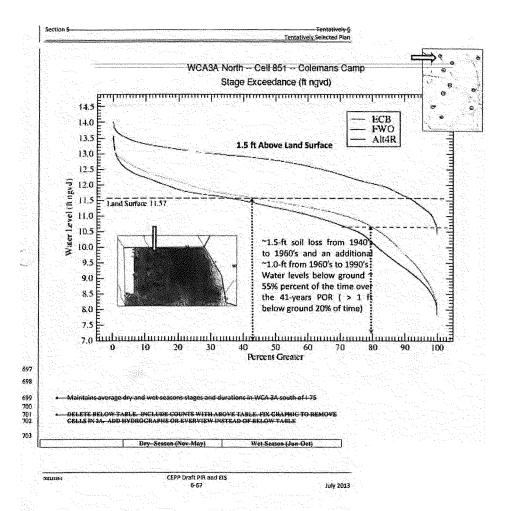
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Tentatively 6 Section 5 <u>Tentatively</u> Selected Plan Monthly Average Max Cell Water Below Location Matee WCA-3A Central 1365-FWO 1.0.0 1365 AJI4R WGA-3A Central 1-1-5 1164 PWO 1.7.0 1164 AlidR WCA-3A Gentral 1.84

704 705 1060 FWO

1443 AH4R

1060 Alt IR WCA-3A South Central

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Reduces the total number of days of closures to WCA 3A over the (41 year) period of record
 807 days with the project vs. 892 days based on current conditions

	High-Stage Glosures			High Stage Closure			· · · · · · · · · · · · · · · · · · ·	Fire Clesures	- 11-
Scenario Percent-of Days Closed		No: Even ts	Avg- Durati on	Percent of Days Closed	No. Events	Avg. Duratio			
ECO	3.4	15	34-1	2.5	12	31.8			
FWG	2.9	12	36.8	2,8	16	26.4			
Alt4R	4.0	17	35.6	4.3	9	22.4			
	No.		no. V						

Provides expanded wildlife terrain by eliminating the landscape barrier the Miami Canal imposes in Northern WCA 3A

- Retains 49 of the 348 acres of higher ground deer refuge from Miami Canal spoils
 - Conserves 82 acres of the highest functioning FWC planted spoil mounds between 1.75 and 5-339 out of the 75 total planted spell acres o - Creates 17 acres of artificial tree islands north of \$-339
- Increasing year round water levels in the Everglades would provide more ideal habitat for waterfowh. It would also induce a shift in hunting patterns in these areas from primarily deer hunting to primarily duck hunting, as seen in Holey Land WMA after its restoration. The Everglades occupy the western portion of the Atlantic Flyway in Florida

o Leased hunt-camp locations

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* Blue Shanty Levee

The Blue Shanty flow-way achieves a central goal of CERP and of CEPP: restoration of continuous sheet-flow in the historical direction and re-connection of a portion of WCA 3B to Evergiades National Park. Concerns expressed that advancing Everglades restoration through construction of an additional levee appears counterintuitive to decompartmentalization goals. Although the levee is

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Comment [baf64]: this bullet and table should be retained in the PIR.

Comment [baf65]: Not a controversy. Should be in the larger "NEPA effects" section

Section & Tentatively Selected Plan 726 controversial, it is necessary to ensure the functioning of a whole levee system in the WCA 38 area 727 and to create the flow-way. 728 279 730 5.10 RISK AND UNCERTAINTY 731 issues of risk and uncertainty are inherent in the planning, design and implementation of the CEPP recommended plan. An overview of feasibility, forecasting, and implementation issues is presented in 732 733 this section. The role of the adaptive assessment strategy in addressing risk and uncertainty is discussed in the following sections 734 Comment [dec66]: Cite the specific section for 735 736 Monitoring and adaptive assessment strategies will continue to evaluate and address issues pertaining to construction sequencing, connectivity, and potential for early restoration benefits. Such evaluations 737 738 will continue to reduce uncertainties and increase the likelihood for overall success. 739 740 741 Two primary areas of focus for this risk and uncertainty evaluation are simulation model confidence, and 742 project performance. This analysis addresses the reliability and accuracy of the assumptions and tools 743 used to forecast with- and without-project conditions are evaluated. 744 745 **Hydrologic Simulation Tools** The RSM-GL and RSM-BN regional models and DMSTA were approved for use through the current USACE Engineering software validation process: The validation reviews were conducted by qualified 746 747 748 senior USACE engineers with support from technical experts, and USACE approval indicates that that software is technically/theoretically sound and approved for use by knowledgeable and trained staff for purposes consistent with the software's purposes and limitations. These modeling tools were used to 751 evaluate the effects of the final array of alternatives. 752 753 Model building/generic software tools (STELLA, Excel, etc.) are generally allowed for use under the 754 validation process, but these tools are not pre-validated and additional USACE Agency Technical Review 755 (ATR) of the inner workings of the model is required. ATR is conducted by a qualified senior team from a 756 separate USACE District than involved in the project. All other CEPP modeling tools, which were applied 757 during preliminary screening efforts, were approved for use in CEPP through the ATR process. 758 The CEPP modeling strategy identified these tools as the best models available for assessment of the

6.10.1.2 Uncertainty of Project Benefits Comment [MAN57]: Section reduced per Ene

There is no standardized methodology for predicting ecosystem benefits that result from habitat restoration projects. For the Corps planning process, the most apparent adverse risks of employing a given benefit estimation methodology are: 1) the most effective project alternative is not selected for implementation, 2) the selected project provides significantly fewer benefits than estimated, or 3) the selected project significantly harms the resource. An uncertainty analysis is typically used to reduce the likelihood of the adverse outcomes listed above. The CEPP team has reviewed the CEPP planning model to document qualitatively and, where possible, quantitatively assessments of how well the CEPP planning model represents the anticipated ecosystem benefits of the alternatives. This was conducted

hydrologic and water quality effects of CEPP within the Everglades system. Additional information on

the USACE model review process and the CEPP modeling strategy is provided in the Engineering

Appendix (Appendix A).

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iection 6		Tentatively 6 Tentatively Selected Plan		
o ensure that decision-makers are informed ab-	ut uncertainties that affect interp	retation of planning		
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Company of the Control of the Contro	Carrier and Company	Large Control of the Princip		
for CEPP, the two most apparent sources of unc he use of regional hydrologic models for the pri				
ne use or regional hydrologic models for the pri- performance measures to represent the ecologic				
conditions. The CEPP Planning Model underwer				
Assuring Quality of Planning Models) and was a				
Restoration Planning Center of Expertise (ECO-P				
ecommendation was received to develop a pos				
associated frequencies of producing those outco				
onfidence limits was not included in the CEPP p				
pecifically evaluate how error in the hydrologic				
nclusion of these additional analyses in Append				
of alternative performance, indicating that the d				
ocumenting the capabilities and limitations of t				
Benefit Model)				
i.10.1.3 Socioeconomic Considerations	. This wills			
ocioeconomic impacts are anticipated to be	positive. Primary impact catego	ries identified include		
ecreational and commercial fishing and to	rism. A quantitative determin	ration of Impacts on		
ommercial and recreational fishing is preclude	d for several reasons. Such a c	letermination requires		
reater understanding of the impacts of regulat			a nganasa, sa sa Da	a secondary
ffects of the releases; impacts attributable to				
lonetheless, this increment of restoration of the			Comment [dec58]:	Please confu
estore habitat necessary for ecological diversi-			intent is correct. If appli casuaries as well	Caple, and ac
ccurately forecast impacts. Despite the uncer			- 	
roject is anticipated to have positive and signif				
nalysis was conducted on the Selected Plan tha	begins to quantify those benefit:	🛍 nasagunga menilika		
	1880			
.10.2 Design and implementation he feasibility assessment includes evaluations of	Parada and an area area area.	could be a manufacture.		
cheduling, technology, construction cost estima				
oxic waste.	te contribenties, tolio availability	, and nataroous or		
Sair state				
.10.2.1 Rock Miners Wall				
.10.2.2 Blue Shanty Levee				
10.2.3 5-356				
.10.2.4 Project Schedules				
dditional design work will be required to go fro	n planning-based design accumed	ions to plans and		
pecifications-based design assumptions. There is				
	ill be required. Additional time w			
naivsis of accinocial screek and mappine data v				

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Tentatively Selected Plan	
5.10.2.5 Construction Cost Estimate Contingencies	
A statistical analysis of cost risk was performed. (we will bod a few sentences here to describe the risks	Comment [baf70]: Complete this section i
lentified and describe the contingency applied to the estimate).	Cost risks
	그리고 하시 않는 얼마 하는데
10.2.6 Land Availability and Acquisition Issues	
lost land required for the project was previously provided under the C&SF Project. Most of the new ands required for the project, but not aiready included in the C&SF project are already owned by the	Programme Commence
FWMD – the 14,521 acre A-2 site in the EAA. An additional 146 acres owned by the State of Florida	
nd SFWMD is needed for a canal to connect the Miami Canal to the A-2 site.	
incertainties surrounding land acquisition include keeping on schedule to complete acquisition of	
states in order to meet construction schedules; the potential for any unknown utility relocations not	
dentified during the study; the potential presence of minerals and mineral rights on lands to be cquired; the potential for hazardous, radioactive, or toxic materials on the lands to be acquired.	
courses; the potential for hazardous, radioactive, or toxic materials on the lands to be acquired.	
i.10.2.7 Residual Agricultural Chemicals and Hazardous or Toxic Waste	Comment [SFWMD71]: Check against no
he 14,521 acre A-2 site that is proposed for a FEB was surveyed for hazardous, toxic, and radioactive	HTRW section
vaste (HTRW). Levels of xx were found on several locations in the project area, primarily due to	Comment [baf72]: Complete this section of
gricultural activities on the land (report and summary expected early May 2013). These materials could	Chem
ose a risk to small mammals, birds, and invertebrates. Corrective actions will be completed before	
hese areas are rehydrated. Since the lands continue to be leased for agricultural activities, there is the	
otential that HTRW spills or pesticide application to occur or to have occurred after the date of the	
urvey. (Add a statement that the non-Federal sponsor understands and accepts its responsibility to omplete any required remediation prior to turning lands over to the Government for the project.)	
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Environmental Compliance

1	Table of Contents
2	7 ENVIRONMENTAL COMPLIANCE
3	7.1 PUBLIC INVOLVEMENT
4	7.1.1 Scaping
5	7.1.2 Agency Coordination and Public Involvement
5	7.1.3 Comments and Responses
7	7.1.4 Stotement Recipients
8	7.2 COMPLIANCE WITH ENVIRONMENTAL LAWS, STATUTES AND EXECUTIVE ORDERS
9	7.3 COMPUANCE WITH USACE CERP AGRICULTURAL CHEMICAL POLICY (TO BE EDITED BY SHAFER IN MARCH)
10	NFS Responsibility: 7-87-87-7
11	7.4 COMPLIANCE WITH FLORIDA STATIOTISS
12	7.4.1 Permits, Entitlements and Certifications 7.97.97 8
13	7.4.2 Compliance with Applicable Water Quality Standards and Permitting Requirements 7-107-107-8
14	병에 되는 그리트 아이에 대한 이 원인을 들었다. 그 이렇게 된다 하다 다양했다.

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7 ENVIRONMENTAL COMPLIANCE

7.1 PUBLIC INVOLVEMENT

7.1.1 Scoping

A National Environmental Policy Act (NEPA) scoping letter dated November 23, 2011 was used to invite comments from Federal, State, and local agencies, affected Indian Tribes, and other interested private organizations and individuals. Scoping comments were accepted through January 20, 2012. A Notice of Intent (NOI) to prepare an Environmental impact Statement (EIS) for the Central Everglades Planning Project (CEPP) was published in the Federal Register (FR Volume 76, Number 232) December 2, 2011. Public scoping meetings were held December 14, 2011 in Plantation, Florida and December 15, 2011 in Clewiston, Florida. A copy of the scoping letter, NOI, scoping letters received and a comment response matrix, are located in Appendix C.3. Five NEPA public workshops were also held December 10, 2012 in Estero, Florida, December 11, 2012 in Homestead, Florida, December 12, 2012 in Clewiston, Florida, December 13, 2012 in Stuart, Florida and December 18, 2012 in Coconut Creek, Florida to present the preliminary final array of alternatives.

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7.1.2 Agency Coordination and Public Involvement

Project Delivery Team (PDT) membership consists of those individuals designated by USACE and South Florida Water Management District (SFWMD), the implementing agencies, and representatives designated by other governmental agencies or Tribes. Interagency participation is encouraged to take advantage of technical skills and knowledge of other agencies. Several Federal, Tribal and state agencies are active members of the PDT. Participants include United States Environmental Protection Agency (USEPA), Unites States Fish and Wildlife Service (USFWS), United States Geological Survey (USGS), National Park Service (NPS), Miccosukee Tribe of Indians of Florida, Seminole Tribe of Florida, Florida Fish and Wildlife Conservation Commission (FWC) and Florida Department of Environmental Protection (FDEP). Representatives from Okeechobee, Glades, Martin, Palm Beach, Broward, Miami-Dade, and Monroe Counties are also active participates. Designated public comment periods provide opportunities for public participation during PDT meetings.

***Brooks — Please review this paragraph for FACA — Public outreach efforts for CEPP began early in the planning process. Due to Intense public, political, and media interest in restoration of the south Florida ecosystem, public participation is a critical component of the development of this Project Implementation Report (PIR). The U.S. Department of the Interior (DOI) Office of Everglades Restoration Initiatives South Florida Ecosystem Restoration Task Force (Task Force) Working Group (WG) hosted a series of public participation workshops to enhance public input during CEPP planning process. The Task Force's Working Group sponsored 15 public workshops to receive input from the public and keep them informed and engaged as active participants. This enhanced public participation served to augment the regular suite of public meetings required for USACE planning efforts and provided members of the public opportunities to engage in two way dialogue at a more technical and detailed level. Workshops were held at key phases of CEPP planning process during the formulation of project objectives, management measures, and evaluation of alternatives (See Appendix C.3 for a complete list of meetings).

The U.S. Department of the Interior (DOI) Office of Everglades Restoration Initiatives South Florida Ecosystem. Restoration Task Force (Task Force) Working Group (WG) hosted a series of public participation workshops to enhance public input during CEPP planning process. The Task Force's Working Group spansored 15 public workshops to receive input from the public and keep them informed and engaged as active participants. This enhanced public participation served to augment the

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regular suite of public meetings required for USACE planning efforts and provided members of the public apportunities to engage in two way dialogue at a more technical and detailed leveland provided input to USACE. Workshops have also been held by the Task Force's other advisory bodies including the Science Coordination Group (SCG) and Water Resources Advisory Commission (WRAC). Presentations have also been provided to SFWMD Governing Board, the South Florida Ecosystem Restoration Task Force, and the South Florida Ecosystem Restoration Task Force Joint Working Group and Science Coordination Group, Water Resources Advisory Council, Committee on Independent Scientific Review of Everglades Restoration Progress, Ten County Coalition Meeting, and Biscayne Bay Regional Restoration Coordination Team Meetings.

Table C.3-2 in Appendix C.3 provides a list of interagency coordination and public presentations conducted throughout the planning process for CEPP.

A summary of public participation as required by NEPA is described in Section 6.1.1 above. In addition to NEPA, coordination with agencies as required by other Federal laws, statues, and Executive Orders has been conducted. See Section 6.3 and Appendix C.3 for agency coordination with the FDEP, National Marine Fisheries Service, State Historic Preservation Officer, United States Department of Agriculture, Natural Resources Conservation Service, and USFWS.

7.1.3 Comments and Responses

A comment response matrix detailing comments received during NEPA scoping process (Table C.3-1) and other public comments received during the planning process (Table C.3-3) along with USACE responses are included within Appendix C.3. Table C.3-2 provides a summary of specific concerns raised by stakeholders throughout the planning process through emails to the Task Force. Videos of each of the South Florida Ecosystem Restoration Task Force (Task Force) Working Group (WG) sponsored workshops are posted on and the dialogue with the public can be viewed: http://www.sfrestore.org/cepp/cepp.html

90 7.1.4 Statement Recipients

Copies of the November 23, 2011 scoping letter and Notice of Availability (NOA) of the Draft EIS were mailed to the parties listed in Table C.3-4 in Appendix C.3. Recipients included Federal, State, and local agencies, affected Indian Tribes, and other interested private organizations and individuals. A complete mailing list is available upon request. A copy of the Draft EIS was also posted on the USACE Jacksonville District website at the following address:

Add Everglades Plan.org link

http://www.saj.usace.army.mii/About/DivisionsOffices/Planning/EnvironmentalBranch.aspx

The Draft EIS was filed in accordance with ER-FRL-8994 //, Amended Environmental Impact Statement 102 Filing System Guidance for Implementing 40 CFR 1506.9 and 1506.10 of the Council on Environmental 103 Quality's Regulations implementing the National Environmental Policy Act. The Draft EIS will be 104 circulated for 45 days. 105

7.2 COMPLIANCE WITH ENVIRONMENTAL LAWS, STATUTES AND EXECUTIVE ORDERS

The following documents required compliance with specific Federal acts, Executive Orders (E.O.) and 109 other applicable environmental laws. Table 7-1Table 7-1Table 6-1 provides a summary of environmental Comment [GSE1]: What are we citing to? Formatted: No underline, Font color: Auto

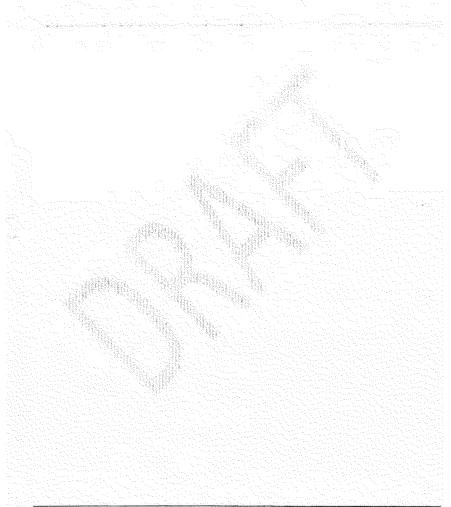
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compliance with each act, E.O. or applicable law. Detailed descriptions indicating the coordination completed to date and the status of any ongoing or compliance issues are located in Appendix C.4.

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CEPP Draft PIR and EIS

Comment [GSE3]: Brooks Comment. What about Bissayne Bay? Double check coastal barrier resource maps. Looks to me like we have resources in the project area.

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Comment [GSE2]: Brooks comment: We don't need Section 176 consistency, do we? Any nonatrainment senso?

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Table 7-1: Compliance with Environmental Laws, Regulations, and Executive Orders: Tentatively Selected Plan	

Environmental Compliance

Law, Policy and Regulations	Status	Status
Anadromous Fish Conservation Act	In compliance with this Act upon review of this document by the NAMS.	Proposed action would not adversely affect anadromous fish species.
Baid and Golden Eagle Protection Act	In compliance with this Act -upon review of this document and associated 8A by the USFWS.	Proposed action would not adversely affect the Bald eagle. No <u>permits for</u> takes are required.
Clean Air Act of 1972	In compliance with this Act, will obtain upon seview of this document and issuance of any required permits.	Potential for permanent sources of air emissions. Air emissions permit may be required for large diesel pumps
Gean Water Act of 1972	In compolance with this Act and will obtain aver Qualing Vestification the MCG, from the State of florida and any required NPDEs permits. In compilance with this Act upon review of this document and issuance of Water Quality Certification (WQC) by the State of Florida.	In accordance with the Clean Water Act, a Section 404(B(1) Evaluation has been completed and is contained within Appendix C.A. Section C.4.32. Comprehensive Everglades Restoration Plan Regulation Act (CERPRA) permit would be sought from State of Florda for WQC.
Coastal Barrier Resources Act and Coastal Barrier Improvement Act of 1990	This project falls within an exception to these acts. These Acts are not applicable.	There are no designated coastal barrier resources in the project area that would be affected by this project
Coasial Zone Management Act of 1972	In compliance with this Act and obtaining consumence by the State of Florida: we compliance with this Act upon review of this deciment and Escience of WQC by the State of Florida.	Florida Coastal Zone Consistency Determination has been prepared in accordance with the provisions of 15 CPR 493 and is located in Appendix C.4, ed. 22. The USACE has determined that the proposed action is consistent to the maximum extent practicable with the enforceable policies of Florida's approved Coastal Zone management program.
Act of 1973	In compliance with this Act and consulting with MMFs and USFWS as appropriate, we compliance with this Act upon review of this document by WMFS and USFWS.	Formal consultation initiated with USFWS gon April 1, 2013 with completion of the Book of the A. Bo expected on Aprils 14, 2021 SUSY determined that implementation of the proposed action is INSERT SPECIES. DETERMINATIONS]. A programmatic Endangered Species Act Section 7 consultation for the Comprehensive Everglades Restoartion Plan (CREP) was prepared on March 15, 2013 to evaluate potential effects of CREP on isted species and designated critical habitat under the NMFS purview.
Estuary Protection Act of 1968	in compilance with goals of this Act.	The objectives of the proposed action are focused on environmental protection. The proposed action provides increased opportunities to redirect water that is currently discharged to the Caloosahatchee and St.

July 2013

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COMMENTS

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Environmental Compliance

Law, Policy and Regulations	Status	
		Lucie Estuaries at undesirable times or in undesirable quantities for flood control purposes, allowing for the ne-establishment of oryster and sea grass populations that are important for providing weter quality and habitat functions within the northern estuaries. <u>The proposes project would</u> increase flows from Southern Everglades hational Park to Florida Bay and result in favorable changes to salinity levels to morove conflicions for key species such as seaggrasses, seatrout, pink shrimp, and procodiles.
Federal Water Project Recreation Act/Land and Water Conservation Fund Act	in compliance with g ools of this Act.	Effects of proposed action on outdoor recreation have been considered in [INSERT REFERENCE TO SECTION/APPENDIX]. Proposed action would not adversely affect existing recreational opportunities. <u>Recreational</u> opportunities have been considered.
Fish and Wildlife Coordination Act of 1958, as amended.	In compliance with goals of t his Act.	Proposed action has been coordinated with USFWS. PALs received. USFWS active participant of CEPP team and has provided information on fish and wildlife elements on project. FWCA received on [INSERT DATE].
Farmland Protection Policy Act of 1981	in compliance with this Act. Coordination ongoing, in compliance with goods of this Act.	Coordination with USDA/NRCS 4:to meet the requirements of the Farmiand Protection Act is ongoing. When detailed design information that locates each of the plan components is completed, it can then be determined how many actes of unique farmiand would be affected by the Project. Refer to Appendix CA for more information.
Magnuson-Stevens Fishery Conservation and Management Act	in compliance with goals of this Act.	An Essential Fish Habitat (EFH) assessment has been prepared and coordinated with the NMFS on February 20, 2013. Due but the restoration opportunities provided by the proposed project, the USACE anticipates concurrence with the determination that the CEPP should benefit EFH.
Marine Mammal Protection Act of 1972	In compliance with this Act upon review of this document by USFWS.	Project sites are accessible to West indian Manatees. Incorporation of safeguards to protect threatened and endangered species during construction would protect marine mammals in the area. No take is antiqueted.
Marine Protection, Research and Sanctuaries Act	This Act is not applicable.	Term "dumping" as defined in the Act does not apply to this project. Proposed action does not consider ocean disposal of dredged material.
National Environmental Policy Act of 1969	In compilance with this Act upon public and agency review of this document, preparation of Final Eis and signing of Record of Decision.	Initial public coordination for this project began with the distribution of a scooling letter dated November 23, 2011 amonouring the preparation of the Draft EIS and inviting public and agency comment (Appendix C.3). On December 2, 2011 a NOI to prepare an EIS was published in the Federal Designer (FR Volumer S), Number 223, Public coping meetings were held on December 34 and 35, 2011. A Notice of Availability for this Draft EIS will so December 34 and 35, 2011. A Notice of Availability for this Draft EIS will

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CEPP Oraft PIR and EIS

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Law, Policy and Regulations	****	stuputio
		De published in the Federal Register, and the Draft EIS will be circulated for a period of 45 days. Public meetings are planned during the comment period for the Draft EIS.
National Historic Preservation Act of 1966 (Inter Alia)	In compliance with this Act and coordinating with the State Historic Preservation Office, in compliance with this Act upon reulaw of this decument by the State Historic Preservation Office.	Significant cultural resources are known to exist within the vicinity of the project area. Cultural resources survey currently being conducted.
Resource Conservation and Resource Act, as Amendee by the Hazardous and Solis Waste Amendments of 1984, CERCLA as Amendee by the 5.26.21 Superfund Amendments and Amendments and Reauthorization Act of 1996, Toxic Substances Control Act of 1976, of 1976, of 1976, of 1976, of 1976, of 1976,	in compliance with this Act upon review of this document by the FDEP.	No items regulated under these laws or other laws related to basardous, toxic, or radioactive waste substances have been discovered through previous Place 1 HTRW assessments of the project area, if any items (squilated under these laws are discovered, the Corps will comply with applicable requirements.
Rivers and Harbors Act of 1899	In compliance with the goals of this Act.	Proposed action would not obstruct navigable waters of the United States.
Submerged Lands of 1953	in compliance with the goals of this Act. This Act the definition of the Act. This	The proposed project would reduce freshwater flows to the Calcosaharthee Estuary and the St. Luck Estuary and provide freshwater overland flow to Florida Bay that will ultimately benefit the ecological habitast that occur on submerged lands of the State of Florida. The proposed project does not occur on submerged lands and no construction is expected on submerged lands, respected education is the proposed setting the State of State
Wild and Scenic River Act of 1968	This Act is not applicable	No designated wild and scenic rivers are located within project area.
E.O. 11514, Protection of the Environment.	In compliance with the goals of this E.O	The objectives of the proposed action are focused on environmental protection.
E.O. 11988 Rood Plain Management	In compliance with the goals of this E.O.	Purpose of E.O. is to discourage Federally induced development of floodplains. Commitment of lands to restoration precludes such floodplains.
E.O. 11990	In compliance with the goals of this E.O.	Areas proposed for restoration are considered freshwater wetlands. The

CEPP Draft PIR and EIS

Environmental Compliance

Law, Polity and Regulations	3112435	Comments
Protection of Wetlands		objectives of the proposed action are focused on environmental protection.
E.C. 12962, Recreational Fisheries	In compliance with goods of this E.O.	Proposed action would have an adverse effect on recreational fisheries in Water Conservation Area 3 with the backflings of the Mamir Canal, but is expected to have a beneficial affect, with Improved recreational fitheries in Florida Bay and slight improvements in the Caloosahatchee and St. Lucie Figuraries, the Blue Shanty flow way and the rehydration of northern WCA. 3A.
E.D. 12898 Environmental Justice	in compliance with geals of this E.O.	Proposed action would benefit all population groups in Okeachobee, Glades, Martin, Palm Beach, Broward, Mami-Dade and Monroe Counties by proving restoration of wetlands and other natural resources within the provided area.
E.O. 13045 Protection of Children	In compliance with geals of this E.O.	Proposed action is not expected to have environmental or safety risks that may disproportionately affect children.
E.O. 13089 Coral Reef Protection	This E.O. is not applicable	Coral reals are not affected No coral reals are located within project area.
E.O. 13122 Invasive Species	in compliance with goals of this E.O.	A nuisance and exotic vegetation control plan has been prepared to prevent or reduce establishment of invasive and non-native species within the project area. Control plan is located in Annex D.
E.O. 13186, Responsibilities of Federal Agencies to Protect Migratory Birds	In compliance with goals of this E.O.	Proposed action would not adversely affect migratory bird species. Proposed action is expected to benefit species by improving habitat and increasing availability of foraging opportunities.
Memorandum on Government to Government Regulations with Native American Tribal Governments	un compliance with this Memorandum.	The USACE has consulted with the Miccosukee Tribe of Indians of Florida and Seminole Tribe of Florida throughout CEPP planning process.

Seminole Indian Lands Clarm Se Hlement actof 1907 (25 U.S.C. 1772e) Chapter 285, Florida Statutes

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The USACE HTRW policy (ER 1165-2-132) directs that Construction of Civil Works projects in HTRWcontaminated areas should be avoided where practicable. In September 2011, the ASA(CW) provided clarification to this HTRW policy for CERP Projects (Memorandum for Deputy Commanding General for Civil and Emergency Operations, Subject: Comprehensive Everglades Restoration Plan (CERP) - Residual

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Agricultural Chemicals, Dated September 14, 2011). A copy of this policy is included in Appendix C.4. If specific criteria are met, this policy memorandum allows residual agrichemicals to remain on project lands and allows the USACE to Integrate response actions directly into the construction plan. The SFWMD has requested application of the policy to the A-2 FEB lands. A copy of the letter from the SFWMD is included in Appendix C.4. The Ag-Chem section of Appendix C.2 of the PIR partially fulfills the requirements established in the aforementioned policy for the A-2 FEB portion of the CEPP. Pursuant to paragraph 4 of the policy and prior to beginning construction, the Jacksonville District will obtain written documentation of regulatory

approval(s) for all response actions from SFWMD, and enter into an agreement with the SFWMD

wherein the USACE accepts and expends funds, contributed by the SFWMD, for performance of the

COMPLIANCE WITH USACE CERP AGRICULTURAL CHEMICAL POUCY (TO BE EDITED BY SHAFER IN

7.3.1 Recommendation

approved response action(s).

Approximately 4,000 acres within the A-2 FEB 14,408 acre site contain low concentrations of residual copper and other agricultural chemicals. These chemicals detected on-site are active ingredients found in commercially available products registered under the FIFRA. Based on the sampling, it is reasonable to surmise that the chemical concentrations are indicative of the lawful application of commercially available products intended to enhance agricultural production. The A-2 FEB project feature requires the land conversion from agricultural production to aquatic restoration which inundates the land with water. The project site was selected to avoid significant adverse impacts to wetland communities. Site alternatives either presented an adverse impact to wetlands or contained residual agricultural chemicals, therefore, the avoidance of lands containing residual agricultural chemicals is not practicable.

The SFWMO is taking steps to obtain regulatory approval of the use of A-2 FEB lands for siting a water storage reservoir. If corrective action is required by FDEP and USFWS It is likely that these actions will be directly incorporated into the overall A-2 FEB design developed by the USACE. Prior to project construction, the SFWMD will provide the Jacksonville District with written documentation of regulatory approval for any response action and for the soils containing residual agricultural chemicals remaining on project lands. CESAI will provide this information to the EMCX (Environmental Munitions Center of Expertise) for review and to HQUSACE for concurrence prior to initiating construction of the A-2 FEB.

Solls from the project lands were tested and determined not to exhibit any hazardous waste characteristic under the RCRA. Furthermore, the SFWMD agrees to be 100% responsible for the cost of all actions taken due to the presence of residual agricultural chemicals at no-Government-

NES Responsibility:

The NFS is-will be 100% responsible for the cost of actions taken due to the presence of residual agricultural chemicals, at no expense to the Federal Government, and that agny future costs associated

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Comment [GSE6]: Brooks Comment: Is this section intended to show compliance with policy? I think we want everything in the PIR to demonstrate

Comment [GSE7]: Brooks Comment: What alternatives? How do we know? Were they similar to A2? Did we ever discuss alternative sites?

Comment [GSE8]: Brooks Comment: This is unsubstantiated and very conclusory, especially in light of the fact that we didn't look beyond lands owned by the aponsor.

Comment [GSE9]: Brooks Comment: Miss Cost Completion for Soils Containing Ag Cre-Remaining on Project Lands; Cost Comparison USACE as construction agency for room FACEA response Action; Engineering and other risks.

 Environmental Compliance

with the presence of residual agricultural chemicals at the Federal project site will be 100% NFS cost and responsibility. The costs for characterization of the project lands in preparation for conducting a response action for the residual agricultural chemicals and removal of soils that are hazardous waste will be included as 100% NFS responsibility. The Jacksonville District shall not conduct actions to address residual agricultural chemicals for the SFWMD during the operation and maintenance, repair, replacement and rehabilitation (OMRR&R) phase of the project.

7.4 COMPLIANCE WITH FLORIDA STATUTES

(Update with reference to section/appendix describing analyses required by WRDA 2000 and State Law. Appendix/Annex should contain... 1. Florida Coastal Zone Management Program Federal Consistency Evaluation. 2. Section 404(b)(1) 3. Project Assurance and Savings Clause Requirements and 4. State Compliance Report)

The State of Fiorida has enacted several laws pertaining to implementation of CERP projects. These include amendments to Section 373.026 (3), Florida Stature (F.S.), which establishes a requirement for the SFWMD to submit a report for review and approval by FDEP prior to formal submission of a request for authorization from Congress and prior to receiving an appropriation of state funds for construction and other implementation activities (except the purchase of lands from willing sellers); the enactment of Section 373.1501 F.S., which establishes the intent of the Florida Legislature with respect to CERP and the criteria for FDEP approval and the procedures to be followed by the SFWMD and FDEP for submitting and reviewing requests for approval; the enactment of Section 373.1502 F.S., which establishes permitting requirements and a process for the submittal, review, and issuance of certain regulatory permits for CERP projects; and the enactment of Section 373.470 and Section 373.472 F.S., establishing the "Save Our Everglades Trust Fund," funding and reporting requirements, and procedures for distributions from the trust fund.

The SFWMD's State Compliance Report addressing the criteria for approval listed in Section 373.1501. F.S. is included in Annex B. In addition to the above-described statutory requirements, other sections of Chapters 373 (Water Resources) and 403 (Environmental Control) of the Florida Statutes include requirements that may apply to various aspects of CERP project planning and implementation. In particular, Chapter 403 F.S. and the administrative laws adopted in accordance with Chapters 373 and 403 F.S., contain the requirements for facilities that involve the discharge or potential discharge of pollutants to surface and groundwaters, and the discharge of air pollutants, including facilities regulated under the Federal Clean Air Act. Based on the Information contained in this PIR, the Tentatively Selected Plan complies with the applicable provisions of the Florida Statutes. A detailed explanation of how the project compiles with the applicable requirements for CERP projects contained in the Florida Statutes can be found in Annex B.

7.4.1 Permits, Entitlements and Certifications

Construction activities for CEPP are scheduled to begin [INSERT DATE]. The USACE will obtain WQC prior to advertising the construction contract. Section 402 of the National Pollutant Discharge Elimination System (NPDES) permits required under the Clean Water Act may be necessary for the construction (non-point source runoff) of project features depending on means and methods of construction. This program has been delegated by the USEPA for implementation to the State of Florida (FDEP). At this time, a NPDES permit would not be required for the operation of CEPP features, as the project does not involve the discharge of pollutant. All required permits and/or modifications to existing permits would be acquired prior to construction activities.

Comment [GSE11]: Brooks Comment: What do we mean?

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Environmental Compliance

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114 115 7.4.2 Compliance with Applicable Water Quality Standards and Permitting Requirements
The CEPP complies with water quality standards applicable to the project and adjacent waters. The
Selected Plan's features are located in and adjacent to waters designated as Class III by the State of
Florida. In accordance with Florida Administrative Code (F.A.C.) Rule 62-902 ("Surface Water Quality
Standards"), the use classification of Class III waters is "Recreation, Propagation, and Maintenance of a
Healthy, Well-Balanced Population of Fish and Wildlife." In addition to the minimum and general
criteria for surface waters found in Section 62-302.500(1) F.A.C., there are numerous water quality
criteria for specific parameters for Class III waters listed in Section 62-302.530, F.A.C. Although the
Tentatively Selected Plan for CEPP is not expected to affect most of the parameters listed in this rule,
certain parameters (e.g., turbidity, dissolved oxygen and nutrients) listed in the criteria may be affected
by construction and operations activities.

In general, any short-term impacts to water quality associated with construction of the Tentalvely Selected Plan would be ameliorated by construction sequencing, best management practices for erosion and sedimentation control and monitoring during construction. If potentially adverse effects are observed or predicted, longer-term impacts to water quality associated with the operation of project features would be addressed through operational monitoring and adaptive management actions.

Summary of water quality analysis and reference full analysis in Appendix C.4. [INSERT CONCLUSION OF WATER QUALITY ANALYSIS]

Comment [GSE12]: Brooks Comment: What shout the increased risk of Consent Decree exceedances/1817

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Recommendations

8.0 DISTRICT ENGINEER'S RECOMMENDATIONS

The Central Everglades Planning Project (CEPP) will redirect some of the undesired high regulatory discharge of freshwater from Lake Okeechobee to the Northern Estuaries (Caloosahatchee and St. Lucie) and deliver this water southward through the storage and treatment facilities within the Everglades Agricultural Area (EAA), then deliver this water to Water Conservation Area 3 (WCA 3), Everglades National Park (ENN), and Florida Bay. Reducing high discharges to the Northern Estuaries will improve salinity and turbidity conditions and benefit seagrass beds and the animals that inhabit them. The environmentally beneficial releases from Lake Okeechobee to WCA 3, ENP, and Florida Bay will restore a more natural mosaic of habitat conditions in these areas by improving the quality, quantity, timing, and distribution of flows to the Central Everglades system.

The specific components of CEPP are increments of several components of the Comprehensive Everglades Restoration Plan (CERP), and the CEPP plan represents a first increment of restoration in the central Everglades system. This plan is compatible with other CERP components and does not preclude future increments of restoration.

The Project is integral to achieving restoration in the central Everglades and plays an important role in meeting CERP system-wide ecosystem goals and objectives. The Project will enhance 3,190,660 acres ("4,985 square miles) of freshwater and estuarine habitats. The Project will deliver an average of 200,000 acre-feet/year of additional water from Lake Okeachobee to the central Everglades.

I find that CEPP, located in Palm Beach, Broward, and Miami-Dade counties, is an integral part of CERP. The CEPP plan includes:

EAA: 14,000 acre A-2 flow equalization basin (FEB) and associated distribution, inlet, and outlet structures. Operation of the A-2 FEB would be integrated with the operation of the A-1 FEB, a state-funded and state-constructed FEB.

WCA 2A and Northern WCA 3A: gated spillway to deliver water from the L-6 Canal to the L-5 Canal, gated spillway to deliver water from STA 3/4 to the L-5 Canal, enlargement of approximately 13.6 miles of the L-5 Canal; degradation, of approximately 2.9 miles of the southern L-4 Levee; 200 cfs pump station to move water within the L-4 Canal to maintain Tribal water supply deliveries west of the L-4 Canal; gated culverts to deliver water from the Miami Canal (south of the S-8 Pump Station) and the L-5 Canal to the L-4 Canal; and backfill approximately 13.5 miles of the Miami Canal and include upland mounds between a point 1.5 miles south of the S-8 Pump Station and Interstate Highway I-75.

Southern WCA 3A, WCA 3B, and the Northern edge of ENP: 1,150 cfs gated spillway adjacent to 5-333; 500 cfs gated culvert in L-67A Levee and an associated 6,000 foot gap in L-67C Levee; flowway through the western end of WCA 3B (2 gated culverts in L-67A Levee; removal of approximately 8 miles of L-67C Levee; removal of approximately 4.5 miles of L-29 Levee; construction of new approximately 8.5 mile levee); gated spillway in L-29 Canal; remove ~5.5 miles of the L-67 Extension Levee; removal of approximately 6 miles of Old Tamiami Trail, and removal of spoil mounds along the northwestern side of the L-67A Canal.

Eastern edge of ENP: 1,000 cfs pump station; approximately 4 mile long, 35 feet deep tapering seepage barrier cutoff wall along the L-31N Levee just south of Yamiami Trail.

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Comment [mrd1]: I think this should reach sectionS with the structure names. The description in 5 has been updated.

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96 97 Recommendations

Therefore, I recommend that the CEPP as described in the section of the report entitled "The Selected Plan", with such modifications that may be deemed advisable at the discretion of the Chief of Engineers, be authorized for construction. The total estimated first cost for the CEPP is \$1,904,000,000 (Fiscal Year (FY) 2013 price level), with an estimated Federal cost of \$952,000,000 and an estimated non-Federal cost of \$952,000,000. The Plan includes a separate additional cost for recreation features totaling \$5,577,000 (FY 2013 price level), with an estimated Federal cost of \$2,788,500 and an estimated non-Federal cost of \$2,788,500 and an estimated non-Federal cost of \$2,788,500 and an estimated on-Federal cost of \$2,788,500. The estimated total annual cost of operation, maintenance, repair, replacement, and rehabilitation (OMRR&R) the ecosystem restoration elements is \$4,000,000 with an estimated Federal annual OMRR&R cost of \$2,000,000 and an estimated non-Federal OMRR&R cost of \$2,000,000. The estimated cost for OMRR&R of the recreation elements is \$50,000 which is 100 percent non-Federal cost of \$2,000,000 with an estimated recreation elements.

Comment [mrd2]: Updated to match revisions in

The above recommendations are made with the provision that the non-Federal sponsor and the Secretary of the Army shall enter into a binding agreement defining the terms and conditions of cooperation for implementing the Project, and that the non-Federal sponsor agrees to perform the following items of local cooperation:

- a. Provide 50 percent of total project costs consistent with the provisions of Section 601(e) of the Water Resources Development Act (WRDA) of 2000, as amended, including authority to perform design and construction of project features consistent with Federal law and regulation;
- b. Provide all lands, easements, and rights-of-way, including suitable borrow and dredged or excavated material disposal areas, and perform or assure the performance of all relocations that the Government and the Non-Federal Sponsor jointly determine to be necessary for the construction, operation, maintenance, repair, replacement and rehabilitation of the Project and valuation will be in accordance with the Master Agreement;
- Shall not use the ecosystem restoration features or lands, easements, and rights-of way required for such features as a weilands bank or minigation credit for any other Non-CERP projects.
- d. Give the Government a right to enter, at reasonable times and in a reasonable manner, upon land that the non-Federal sponsor owns or controls for access to the Project for the purpose of inspection, and, if necessary, for the purpose of constructing, completing, maintaining, repairing, replacing, or rehabilitating the Project;
- e. Assume responsibility for OMRR&R of the Project or completed functional portions of the Project, including mitigation features, in a manner compatible with the Project's authorized purposes and in accordance with applicable Federal and State laws and specific directions prescribed in the OMRR&R manuals and any subsequent amendments thereto. Cost sharing for OMRR&R will be in accordance with Section 601 of WRDA 2000, as amended;
- Assume responsibility for OMRR&R of the recreation features of the Project with responsibility for 100 percent of the cost;
- Keep the recreation features, and access roads, parking areas, and other associated public use facilities, open and available to all on equal terms;

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Section 8 Recommendations

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h. Unless otherwise provided for in the statutory authorization for this Project, comply with Section 221 of Public Law 91-611, Flood Control Act of 1970, as amended, and Section 103 of the WRDA of 1986, Public Law 99-662, as amended, which provides that the Secretary of the Army shall not commence the construction of any water resources project or separable element thereof, until the non-Federal sponsor has entered into a written agreement to furnish its required cooperation for the Project or separable element;

- Hold and save the Government free from all damages arising from construction, operation, maintenance, repair, replacement and rehabilitation of the Project and any project-related betterments, except for damages due to the fault or negligence of the Government or the Government's contractors:
- j. Keep and maintain books, records, documents, and other evidence pertaining to costs and expenses incurred pursuant to the Project to the extent and in such detail as will properly reflect total project costs in accordance with the Master Agreement;
- k. Perform, or cause to be performed, any investigations for hazardous substances that are determined necessary to identify the existence and extent of any hazardous substances regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 USC 9601-9675, that may exist in, on, or under lands, easements or rights-of-way necessary for the construction, operation, and maintenance of the Project; except that the non-Federal sponsor shall not perform such investigations on lands, easements, or rights-of-way that the Government determines to be subject to the navigation servitude without prior specific written direction by the Government;
- Assume complete financial responsibility for all necessary cleanup and response costs of any CERCLA regulated materials located in. on, or under lands, easements, or rights-of-ways that the Government determines necessary for construction, operation, maintenance, repair, replacement and rehabilitation;
- m. As between the Government and the non-Federal Sponsor, the non-Federal Sponsor shall be considered the operator of the Project for purposes of CERCLA liability. To the maximum extent practicable, the non-Federal Sponsor shall operate, maintain, repair, replace, and rehabilitate the Project in a manner that will not cause liability to arise under CERCLA;
- Prevent obstructions or encroachments on the Project (including prescribing and enforcing regulations to prevent such obstructions or encroachments) such as any new developments on Project lands, easements, and rights-of-way or the addition of facilities which might reduce the outputs produced by the ecosystem restoration features, hinder operation and maintenance of the Project, or Interfere with the Project's proper function;
- comply with the applicable provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, Public law 91-646, as amended by title IV of the Surface Transportation and Uniform Relocation Assistance Act of 1987 (Public Law 100-17), and the Uniform Regulations contained in 49 CFR part 24, in acquiring lands, easements, and rights-of-

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Comment [bar3]: BBCW has added text deacrining the CERP muster agreement. **CERP Mass Agreement between the Department Army and the South Florida Water Management Army and the South Florida Water Management Army and the South Florida Water Management Coperating, Mantaining, Repoiling, Replacing, and Rehabilisating Projects Authorized to the Understand Plantaining Projects Authorized to the Understand Plantaining Projects Authorized to the Understand Plantaining Projects Plantaining Plantainining Plantaining Plantaining Plantaining Plantaini Restoration Plan, executors including Article XI Mainte

way, and performing relocations for construction, operation, and maintenance of the Project, and inform all affected persons of applicable benefits, policies, and procedures in connection with said act:

p. Comply with all applicable Federal and State laws and regulations, including, but not limited to, Section 601 of the Civil Rights Act of 1964, Public Law 88-352 (42 U.S.C. 2000d) and Department of Defense Directive S500.11 issued pursuant thereto; Army Regulation 600-7, entitled "Nondiscrimination on the Basis of Handicap in Programs and Activities Assisted or Conducted by the Department of the Army;" and all applicable Federal labor standards requirements including, but not limited to, 40 U.S.C. 3141-3148 and 40 U.S.C. 3701-3708 [revising, codifying and enacting without substantive change the provisions of the Davis-Bacon Act (formerly 40 U.S.C. 276a et seq.), the Contract Work Hours and Safety Standards Act (formerly 40 U.S.C. 327 et seq.) and the Copeland Anti-Kickback Act (formerly 40 U.S.C. 276c)];

q. Comply with Section 106 of the National Historic Preservation Act in completion of all consultation with the Florida State Historic Preservation Officer, and as necessary, the Advisory Council on Historic Preservation, prior to construction as part of the preconstruction engineering and design phase of the Project;

 Provide 50 percent of that portion of total cultural resource preservation mitigation and data recovery costs attributable to the Project that are in excess of one percent of the total amount authorized to be appropriated for the Project;

)

s. Do not use Federal funds to meet the non-Federal sponsor's share of total project costs unless the Federal granting agency verifies in writing that the expenditure of such funds is expressly authorized and in accordance with Section 601 (e)(3) of the WRDA of 2000, as amended, and in accordance with the Master Agreement;

t. The Non-Federal Sponsor agrees to participate in and comply with applicable Federal floodplain management and flood insurance programs consistent with its statutory authority:

 Not less than once each year the Non-Federal Sponsor shall inform affected interests of the extent of protection afforded by the Project;

2. The Non-Federal Sponsor shall publicize flood plain information in the area concerned and shall provide this information to zoning and other regulatory agencies for their use in preventing unwise future development in the flood plain and in adopting such regulations as may be necessary to prevent unwise future development and to ensure compatibility with protection levels provided by the Project;

3. The Non-Federal Sponsor shall comply with Section 402 of WRDA 1986, as amended (33 U.S.C. 701b-12), which requires a non-Federal interest to have prepared, within one year after the date of signing a Project Partnership Agreement (PPA) for the Project, a floodplain management plan. The plan shall be designed to reduce the impacts of future flood events in the project area, including but not limited to, addressing those measures to be undertaken by non-Federal interests to preserve the level of flood protection provided by the Project. As required by Section 402, as amended, the non-Federal

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construction of the Project. The Non-Federal Sponsor shall provide an information copy of the plan to the Government upon its preparation; 4. The Non-Federal Sponsor shall prescribe and enforce regulations to prevent obstruction

of or encroachment on the Project or on the lands, easements, and rights-of-way determined by the Government to be required for the construction, operation, maintenance, repair, replacement, and rehabilitation of the Project, that could reduce the level of protection the Project affords, hinder operation or maintenance of the Project, or interfere with the Project's proper function.

u. The non-Federal sponsor shall execute under State law the reservation or allocation of water for the natural system as identified in the PIR for this authorized CERP Project as required by Section 601(h)(4)(B)(ii) of WRDA 2000 and the non-Federal sponsor shall provide information to the Government regarding such execution. In compliance with 33 CFR 385, the District Engineer will verify such reservation or allocation in writing. Any change to such reservation or allocation of water shall require an amendment to the PPA after the District Engineer verifies in writing in compliance with 33 CFR 385 that the revised reservation or allocation continues to provide for an appropriate quantity, timing, and distribution of water dedicated and managed for the natural system after considering any changed circumstances or new information since I a more holistic analysis of A-1 Feb, CEPP completion of the PIR for the authorized CERP Project.

Therefore, I recommend that(May need to add additional recommendations to reflect the resolution of currently unresolved policy items, as of 15 March 2013 such as water quality, cost sharing of O&M of A-1 FEB and STA 3/4, cost of L-67A culverts, and/or apply CERP-specific HTRW AgChem policies.)

The recommendations contained herein reflect the information available at this time and current Departmental policies governing formulation of individual projects. They do not reflect program and budgeting priorities inherent in the formulation of a national Civil Works construction program nor the perspective of higher review levels within the Executive Branch. Consequently, the recommendations may be modified before they are transmitted to the Congress as proposals for authorization and implementation funding. However, prior to transmittal to the Congress, the Sponsor, the State, interested Federal agencies, and other parties will be advised of any modifications and will be afforded an opportunity to comment further.

Alan M. Dodd Colonel, Corps of Engineers District Engineer

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

MARJORY STONEMAN DOUGLAS BUILDING 3900 COMMONWEALTH BOULEVARD TALLAHASSEE, FLORIDA 32399-3000 RICK SCOTT GOVERNOR HERSCHEL T. VINYARD JR. SECRETARY

October 11, 2013

Mr. Eric P. Summa, Chief Environmental Branch, Jacksonville District U.S. Army Corps of Engineers Post Office Box 4970 Jacksonville, FL 32232-0019

Department of the Army, Jacksonville District Corps of Engineers – Draft Integrated Project Implementation Report and Environmental Impact Statement, Central Everglades Planning Project (CEPP) – South Florida. SAI # FL201308286704C (Reference Prior SAI # FL201112066056)

Dear Mr. Summa:

RE:

The Florida State Clearinghouse has coordinated a review of the U.S. Army Corps of Engineers' (USACE) Draft Integrated Project Implementation Report and Environmental Impact Statement (PIR/EIS) for the CEPP under the following authorities: Presidential Executive Order 12372; § 403.061(42), *Florida Statutes*; the Coastal Zone Management Act, 16 U.S.C. §§ 1451-1464, as amended; and the National Environmental Policy Act, 42 U.S.C. §§ 4321-4347, as amended.

The following agencies submitted comments, concerns and recommendations regarding the Draft PIR/EIS, all of which (letters, memoranda or Clearinghouse database entries) are attached hereto, incorporated herein by this reference and made an integral part of this letter:

- Florida Department of Environmental Protection
- · South Florida Water Management District
- Florida Department of Agriculture and Consumer Services
- Florida Fish and Wildlife Conservation Commission
- Florida Department of Transportation
- Florida Department of State, Division of Historical Resources
- Treasure Coast Regional Planning Council

Based on the information contained in the submittal and enclosed agency comments, the state has determined that the USACE's Draft PIR/EIS for the CEPP is consistent with the Florida Coastal Management Program (FCMP). To ensure the project's continued consistency with the FCMP, the concerns identified by the reviewing agencies must be addressed prior to project

Mr. Eric P. Summa Page 2 of 2 October 11, 2013

implementation. The state's continued concurrence will be based on the activities' compliance with FCMP authorities, including federal and state monitoring of the activities to ensure their continued conformance, and the adequate resolution of issues identified during this and subsequent regulatory reviews. The state's final concurrence of the project's consistency with the FCMP will be determined during the state's environmental permitting process, in accordance with Section 373.428, *Florida Statutes*.

Please refer to the attached letters, memoranda and online Clearinghouse database entries for all agency comments, concerns and recommendations regarding the above-captioned project. Should you have any questions or require additional information, please don't hesitate to contact me at (850) 245-2170 or Lauren_Milligan@dep.state.fl.us.

Yours sincerely,

Lauren P. Milligan, Coordinator Florida State Clearinghouse

Jamen P. Milligan

Office of Intergovernmental Programs

Enclosures

ec: Gretchen Ehlinger, USACE-SAJ
Ernie Marks, DEP, OEP
Chad Kennedy, DEP, OEP WPB
John Morgan, SFWMD
Ray Scott, FDACS
Scott Sanders, FWC
Martin Markovich, FDOT
Timothy Parsons, DOS
Stephanie Heidt, TCRPC





Categories

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Project Inform	ation
Project:	FL201308286704C
Comments Due:	10/01/2013
Letter Due:	10/13/2013
Description:	DEPARTMENT OF THE ARMY, JACKSONVILLE DISTRICT CORPS OF ENGINEERS - DRAFT INTEGRATED PROJECT IMPLEMENTATION REPORT AND ENVIRONMENTAL IMPACT STATEMENT, CENTRAL EVERGLADES PLANNING PROJECT (CEPP) - SOUTH FLORIDA.
Keywords:	ACOE - DEIS, CENTRAL EVERGLADES PLANNING PROJECT, CERP PROJECTS - SOUTH FLORIDA
CFDA #:	12.104

Agency Comments:

AGRICULTURE - FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

FDACS staff notes that, as recognized in the draft PIR/EIS, implementation of the CERP components included in the CEPP is constrained by the WRDA 2000 Savings Clause. Completion of the C-44 Reservoir (IRL-S) and connection to the C-23 Canal, as well as modification of the Lake Okeechobee Regulation Schedule, must occur in order satisfy the requirements of the Savings Clause. There is certainly value in recognizing these future constraints, but FDACS believes their resolution should occur within the context of PIRs prepared for implementing the CERP components that are subject to such constraints. Water quality considerations also constitute a significant barrier to implementing the CERP components included in the CEPP. The draft PIR/EIS identifies a number of "project dependencies," projects that must be completed and operational, or conditions that must exist, prior to implementation of the CERP components included in the CEPP. In regard to water quality the draft PIR/EIS provides, "All features of the State's Restoration Strategies must be completed and meet state water quality standards prior to initiating construction of most CEPP project features," (Pp. 6-38). If those water quality improvement features are completed and operational by 2029 as currently anticipated, there would still need to be a determination that the CERP components included in the CEPP would not cause or contribute to a violation of State water quality standards. Again, an issue that staff believes would best be addressed when the detailed project planning occurs for the affected CERP components. The recommended plan resulting from the CEPP provides a blueprint for the future implementation of a suite of related CERP components, and should be viewed as provisional. Project dependencies associated with the plan are substantial, and experience suggests that conditions may be very different by the time any of these components are implemented.

ENVIRONMENTAL PROTECTION - FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

The DEP provided comments on the scoping notice through the Florida State Clearinghouse in January 2012 and has actively participated throughout the planning process. DEP outlined a number of issues significant to the State of Florida to be addressed during the planning process, including requirements related to water quality, planning assumptions, cost-share, and building upon our existing investment in lands already acquired for CERP. While we have made significant progress on these issues, the comments below should be considered carefully prior to finalizing the PIR and throughout the implementation of CEPP. The comments provided in the attached memorandum do not constitute the State's formal review of CERP project components, as required by State law under Sections 373.1501 and 373.026, F.S. This approval is needed before the recommended plan can be submitted to Congress for authorization, or receives an appropriation of state funds. The DEP is concurrently reviewing an informal draft of the State Compliance Report submitted by the STAMD. The draft was not included in the published draft of the PIR. Please coordinate with the SFWMD to ensure that sufficient and timely information is provided and that the report is included in the final PIR. For further specific comments, concerns and recommendations, please refer to the enclosed DEP memorandum.

TRANSPORTATION - FLORIDA DEPARTMENT OF TRANSPORTATION

FDOT District 6 staff notes that the Tentative Selected Plan (Alternative 4R.2) could potentially impact the Tamiami Trail roadway base by raising the L-29 max stages to 9.7 ft. Though the report does not define the duration that the peak stages will be maintained, the flood duration is critical in determining if the portions of the Tamiami Trail will be required to be raised. The document should account for the cost associated with raising portions of Tamiami Trail, since raising the L-29 canal elevation to 9.7 ft. NGVD will require raising portions of this roadway. It is not clear in the CEPP Draft PIR/EIS

documentation what the anticipated stages in the area of Tamiami Trail from Structure S-343 to Structure S-12A/S-14 are. If the stage in this area is also anticipated to be raised to 9.7 ft. NGVD, approximately 2.5 miles of Tamiami Trail in this area will be have to be raised for roadway base protection. District 4 also advises that it has several transportation structures within the CEPP planning area including, but not limited to, I-75 (SR 93), US 27 (SR 25), and US 441 (SR 80/SR15). Proposed increases in water flow need to be evaluated in terms of roadway engineering and safety. The report highlights the need to maintain levels of flood protection for the urban and agricultural areas east of the WCAs and Everglades National Park. However, little discussion, other than Tamiami Trail, is included regarding the potential impacts to current and future transportation structures (roadways, rail and bridges). The District requests further information regarding how CEPP will integrate transportation infrastructure within its planning framework.

TREASURE COAST RPC - TREASURE COAST REGIONAL PLANNING COUNCIL

Implementation of the recommended plan for the CEPP will assist in reducing harmful discharges of freshwater from Lake Okeechobee. This will have a beneficial effect on major water bodies in the region, including the St. Lucie River Estuary, Indian River Lagoon, and Lake Worth Lagoon, which also is impacted by discharges from Lake Okeechobee. Although the recommended plan provides a significant increase in freshwater needed for the restoration of the central Everglades, additional actions are needed to further reduce harmful discharges of freshwater from Lake Okeechobee. Therefore, it is important for the CEPP to proceed in a way that complements other components of CERP currently underway in the region. Approval of the CEPP should not delay or interrupt implementation of other approved CERP projects. The CEPP recommended plan is consistent with the Strategic Regional Policy Plan. Specifically, the recommended plan furthers the policies in the following goal areas: Regional Goal 6.2: A regional water supply managed to provide for all recognized needs on a sustainable basis. Regional Goal 6.3: Protection of water quality and quantity. Regional Goal 6.5: Protection of estuarine resources. Regional Goal 6.6: Protection of wetlands and deep water habitats. Regional Goal 6.8: Protection of endangered and potentially endangered species. Regional Goal 6.9: Protection and sustainability of the Everglades Ecosystem. Implementation of the recommended plan will help to achieve ecosystem restoration, increased water supplies, improved water quality, and the maintenance of flood protection. This plan represents an opportunity to accomplish these goals and balance the need to provide water for natural systems and urban and agricultural uses.

SOUTH FLORIDA WMD - SOUTH FLORIDA WATER MANAGEMENT DISTRICT

The SFWMD notes that the Draft PIR/EIS covers policy issues that the SFWMD identified during the scoping process, specifically, three issues of significance at that time: water quality requirements, assumptions and cost-share; use of existing SFWMD-owned lands in project formulation; and inclusion in the CEPP "Future With Project Condition" of specific project features identified in the June 1992 General Design Memorandum and Environmental Impact Statement for Modified Water Deliveries to Everglades National Park. In addition, the following issues of significance arose during the CEPP PIR planning process: OMRR&R cost share and integrated operation of state facilities; and phased implementation and need for multiple Project Partnership Agreements. SFWMD staff received Governing Board guidance on these issues most recently in a Board resolution passed in August (see attached). These issues were resolved in the Draft PIR through language that was carefully negotiated by the state and the federal governments. As the Final PIR is developed, it is imperative that the Corps preserve the language used and the plan established for resolution of these issues. Please see the enclosed SFWMD letter and contact Mr. Tom Teets, Federal Policy Chief, at (561) 682-6993 or tteets@sfwmd.gov for further details and assistance.

FISH and WILDLIFE COMMISSION - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

The FWC notes its responsibilities in the CEPP footprint for fish, wildlife and land management in Water Conservation Areas (WCAs) 2A, 2B, 3A and 3B, which are managed collectively as the Everglades and Francis S. Taylor Wildlife Management Area (EWMA). Although Sections 5.2.4 and 5.2.5 of the draft PIR/EIS cover listed species, FWC requests that the Miami blue butterfly be included as a federally endangered species as well. Despite the diversity of fish and wildlife species and habitats in the EWMA and ENP, past water regimes have caused substantial harm to habitat areas within portions of the WCAs. FWC staff recognizes that the CEPP will be implemented over many years and will need to include a number of carefully sequenced phases. The FWC intends to actively participate in the adaptive management of this complex set of changes in the Central Everglades to help ensure maximum benefits to fish and wildlife resources. Please see the enclosed letter for further detailed comments and recommendations.

STATE - FLORIDA DEPARTMENT OF STATE

The DOS-SHPO reports that, as noted in Appendix C.2.1.7 of the document, Section 106 consultation regarding the potential effects of CEPP operations on historic properties is on-going, DOS-SHPO will continue to work with their federal, state and tribal partners as the project progresses to ensure compliance with Section 106, and to minimize impacts to historic properties.

SOUTH FL RPC - SOUTH FLORIDA REGIONAL PLANNING COUNCIL

No Comments Received

For more information or to submit comments, please contact the Clearinghouse Office at:

3900 COMMONWEALTH BOULEVARD, M.S. 47 TALLAHASSEE, FLORIDA 32399-3000 TELEPHONE: (850) 245-2161

FAX: (850) 245-2190

Visit the Clearinghouse Home Page to query other projects.



Memorandum

TO: Lauren Milligan, Florida State Clearinghouse

THROUGH: Ernie Marks, Director

Office of Ecosystem Projects

FROM: Inger Hansen, Jerilyn Ashworth, Jordan Pugh, Rhapsodie Osborne, Stacey Feken

Office of Ecosystem Projects

DATE: October 10, 2013

SUBJECT: U.S. Army Corps of Engineers, Jacksonville District - Draft Integrated Project

Implementation Report and Environmental Impact Statement (PIR/EIS) - Central Everglades Planning Project - Okeechobee, Glades, Martin, Palm Beach,

Broward, Miami-Dade and Monroe Counties, Florida.

Background:

The Central Everglades Planning Project (CEPP) is encompassed in the Comprehensive Everglades Restoration Plan (CERP), which was approved by Congress as a framework for the restoration of the natural system under Section 601 of the Water Resources Development Act (WRDA) of 2000. The purpose of the CEPP is to improve the quantity, quality, timing, and distribution of water flows to Water Conservation Area (WCA) 3 and Everglades National Park (ENP). The recommended plan would achieve these benefits by redirecting approximately 210,000 acre-feet of additional water from Lake Okeechobee on an annual basis to the historical southerly flow path. The study area for CEPP includes the Northern Estuaries (St. Lucie River and Indian River Lagoon and the Caloosahatchee River and Estuary), Lake Okeechobee, the Everglades Agricultural Area, the Water Conservation Areas (specifically WCA 2 and 3), ENP, the Southern Estuaries (specifically focused on Florida Bay), and portions of the Lower East Coast (Palm Beach, Broward, and Miami-Dade counties).

The tentatively recommended plan, Alternative 4R2, will provide significant system-wide ecological benefits especially for the central portion of the historic Everglades, restoring flows to WCA 3 (which includes 3A and 3B) and ENP. The proposed plan will improve Lake Okeechobee operations, and increase storage and conveyance to the south, which will aid in reducing harmful discharges from Lake Okeechobee to the St. Lucie and Caloosahatchee Estuaries. Though CEPP only provides an increment of what is needed for the northern estuaries, it will provide meaningful steps towards restoration of WCA 3 and ENP, including Shark River Slough and Florida Bay.

The CEPP study is being conducted under the authority provided by Section 601(d)(2)(b) of WRDA 2000, which requires preparation of a Project Implementation Report (PIR) to implement components of the CERP, and is being implemented jointly by the U.S. Army Corps of Engineers (Corps) and the South Florida Water Management District (SFWMD), the non-Federal

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local sponsor. The CEPP consolidates six CERP project components including: Everglades Agricultural Storage Reservoirs, WCA 3 Decompartmentalization and Sheet Flow Enhancement, S-356 Pump Station Modifications, L-31 Levee Seepage Management, System-wide Operational Changes--Everglades Rain-Driven Operations, and Flow to Northwest and Central WCA 3A. Upon approval of the PIR by the Florida Department of Environmental Protection (Department) pursuant to Section 373.026, Florida Statutes (F.S.), the Governing Board of the SFWMD and the Assistant Secretary of the Army for Civil Works, the recommended plan will be submitted to Congress for authorization.

Comments:

The Department provided comments on the scoping notice through the Florida State Clearinghouse in January 2012 and has actively participated throughout the planning process. The Department outlined a number of issues significant to the State of Florida to be addressed during the planning process, including requirements related to water quality, planning assumptions, cost-share, and building upon our existing investment in lands already acquired for CERP. While we have made significant progress on these issues, the comments below should be considered carefully prior to finalizing the PIR and throughout the implementation of CEPP.

The comments provided below do not constitute the State's formal review of CERP project components, as required by State law under Sections 373.1501 and 373.026, F.S. This approval is needed before the recommended plan can be submitted to Congress for authorization, or receives an appropriation of state funds. The Department is concurrently reviewing an informal draft of the State Compliance Report submitted by the SFWMD. The draft was not included in the published draft of the PIR. Please coordinate with the SFWMD to ensure that sufficient and timely information is provided and that the report is included in the final PIR.

State Water Quality Standards:

A number of water quality issues that could impact the State of Florida's ability to commit as the local sponsor for CEPP were identified as critical issues throughout the planning process. Of these, a fundamental assumption made as part of the future without condition for CEPP was that existing volumes of water would be treated to meet the State's phosphorus criterion prior to discharge to the Everglades Protection Area. Parallel to the CEPP planning process, the State of Florida delivered on its commitment to address water quality in existing flows to the Everglades Protection Area through development of Governor Rick Scott's Everglades Restoration Strategies Water Quality Plan in 2012. The Governor and Florida Legislature strengthened this commitment through passage of House Bill 7065/Chapter 2013-59, Laws of Florida, which also provides a recurring dedicated source of funds to implement the 880 million dollar plan.

The PIR acknowledges that all features of the State's Restoration Strategies must be completed and meet State water quality standards prior to initiating construction of most CEPP project features. The Department issued a National Pollutant Discharge Elimination System (NPDES) watershed permit (File # FL0778451) and associated consent order (OGC # 12-1148) for the operation and maintenance of the Everglades Stormwater Treatment Areas (STAs), and an

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Everglades Forever Act (EFA) watershed permit (File # 0311207) and associated consent order (OGC # 12-1149) for the construction, operation and maintenance of the Everglades STAs to the SFWMD on September 10, 2012. These permits are issued pursuant to the requirements of the EFA, Section 373.4592, F.S., and the NPDES program delegated to the State of Florida, pursuant to Title 122, Code of Federal Regulations, and Sections 403.088 and 403.0885, F.S. The consent orders that accompany the NPDES and EFA watershed permits require the design, construction and operation of a series of projects identified in the State's Restoration Strategies Water Quality Plan.

Implementation of CEPP will complement the State's effort to restore water quality in the Everglades, build upon the significant investment the State of Florida has made to restore water quality in the Everglades, and complement the acquisition of land, design and construction of the first generation components of CERP. Continued close coordination between the Corps, SFWMD (as local sponsor), and the Department will be needed to ensure that the integration of CEPP with State facilities designed to meet State water quality standards will meet the regulatory requirements set forth in the NPDES and EFA watershed permits and associated consent orders referenced above as well as other relevant provisions of state law.

Several enhanced procedures (e.g., identifying risks early to aid in addressing uncertainties such as water quality in plan formulation, and improving vertical communication and decision making within the participating agencies and the Corps) were introduced during the planning process. An issue critical to the State of Florida is CEPP's effect on the provisions of the Settlement Agreement/Consent Decree with regard to water quality within ENP. This issue was recognized early in the risk register and elevated for resolution. Since CEPP involves redistribution of flows and increased water volume above existing flows, it was recognized that water quality will be impacted as currently measured by the compliance methodology in Appendix A of the Consent Decree² and that future conditions may warrant additional water quality features. consultation with the principals of the parties to the Settlement Agreement, it was recognized that implementation of CEPP would require revisions to the existing Appendix A compliance The process and scope for accomplishing these goals has subsequently been established and agreed upon by the settling parties. Language was negotiated and added to the District Engineer's Recommendations in Section 8 to memorialize this outcome. It is imperative that all parties follow through with this important commitment to work together to develop a scientifically supportable revised compliance methodology and continue to assess whether additional water quality features are necessary to treat additional water moved into the system via CEPP implementation. Failure to reach agreed upon revisions to Appendix A and a cost share agreement on any additional water quality features to address additional water to the Everglades as a result of CEPP implementation will impact the State's ability to approve and/or implement these projects.

¹ United States v. South Florida Water Management District, et al., Case No. 88-1886-CIV-Moreno (U.S.D.C., S.D. FLA.).

² The Appendix A compliance methodology is also incorporated into the State's Everglades Phosphorus Rule as the compliance test for meeting the 10 ppb phosphorus criterion in Everglades National Park. See Rule 62-302.540(4)(c), Fla. Admin. Code.

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In addition to the recognition that Appendix A water quality compliance must be addressed for new project water entering ENP, the PIR establishes other basic principles considered during the development of CEPP with respect to water quality, including:

- All features of the State's Restoration Strategies must be completed and meet State water quality standards prior to initiating construction of most CEPP project features.
- 2) Construction of CEPP project features cannot proceed until it is determined that construction and operation of the feature:
 - a. Will not cause or contribute to a violation of State water quality standards;
 - b. Will not cause or contribute to a violation of any applicable water quality permit discharge limits or specific permit conditions; and
 - c. Reasonable assurances exist that demonstrate adverse impacts on flora and fauna in the area influenced by project features will not occur.
- 3) Additional CEPP water quality treatment features, including operational and structural modifications, may need to be constructed if State water quality standards are not met upon operations of CEPP project features.

As part of the State's regulatory process, the Department will require reasonable assurances that State water quality standards in the Everglades Protection Area, including the WCAs and ENP, will not be violated. Keeping this in mind, and through inclusion of the agreed upon water quality principles and aforementioned language regarding the Consent Decree, the Department believes that the PIR, as currently written, provides the appropriate framework to address water quality issues that may occur as a result of the implementation of CEPP. It is important to note that the District Engineer's Report states that should any of the existing recommendations be modified prior to the PIR being transmitted to Congress, that the Sponsor and the State will be advised of these modifications and afforded an opportunity to comment further. It is imperative that the Corps follow through with this commitment, as any changes to the agreed upon language could impact the State of Florida's ability to find the CEPP plan consistent with the enforceable policies of the Florida's federally approved Coastal Management Program and willingness to accept the role of local sponsor. We expect to see the agreed upon language mirrored in the Chief of Engineer's Report and Record of Decision, and anticipate concurrence that the plan, as currently proposed, is consistent with the provisions of the Florida Coastal Management Program - if both adequately support the statements contained in the negotiated language.

Expedited Planning Process:

Successful restoration of the Everglades is contingent on integrating and streamlining both the State and Federal efforts. The CEPP is one of seven projects being tested through a nationwide pilot program designed to improve the Federal planning process by significantly reducing the timeframe and process necessary to develop a Corps feasibility study – in the case of CERP, a PIR/EIS. The State of Florida strongly supports this effort and committed resources early on to ensure a successful outcome. The Department is pleased to see language in the draft versions of

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WRDA currently circulating through the U.S. Congress that could turn this pilot program into a national practice for Corps feasibility studies. Completion of CEPP, and continued streamlining by all Federal and State agencies as CEPP moves through the final approval phases will demonstrate the success of this pilot program on a national level.

Department staff have actively participated in the development of the recommended plan and associated PIR. We commend the Corps and SFWMD for delivering a draft PIR in record time, and believe the planning process was significantly improved over previous CERP efforts. This was due in part to focusing the efforts and resources on one project that allowed for innovative plan formulation processes to be developed using Multi Criteria Decisional Analyses. Having a focused planning team that worked systematically through multiple formulation phases under a very tight timeline was helpful for moving the plan formulation process forward on an accelerated schedule. Perhaps more importantly, however, in terms of developing a plan that has broad stakeholder support was having the public actively participate in the planning process and providing opportunities for valuable input through the South Florida Ecosystem Restoration Task Force Working Group Sponsored Workshops.

Sequencing:

The PIR states that CEPP is composed of implementation phases that include features or logical groupings of plan features, and that individual Project Partnership Agreements (PPAs), or amendments to existing PPAs, will be executed prior to construction for each implementation phase. The PIR also recognizes dependencies on both CERP and non-CERP projects that must be in place prior to the implementation of CEPP. Many of these will require integration into the sequencing of CEPP to avoid unintended adverse consequences, and to allow for restoration benefits to be achieved as early as possible. However, the PIR is lacking in detail regarding these groupings, interdependencies, phasing, and the estimated year of initiation for features.

Although the Department believes the implementation schedule requires refinement and optimization, we stress that this need should not hold up completion of the PIR and submittal to Congress for authorization. Rather, this process would be the logical next step in the overall implementation of the restoration of the greater south Florida ecosystem, taking into account recent progress that has been made on both CERP and non-CERP projects in the region. The PIR acknowledges that the Corps and the SFWMD will undertake integration of CEPP and the other CERP projects awaiting authorization into the Integrated Delivery Schedule. We caution, however, that the need for additional refinement of the phased implementation and sequencing plan be considered carefully, so as to take regulatory requirements, water supply and flood control issues into account and not drive up programmatic costs.

Section 6.7.1 identifies a number of basic principles that were considered in developing the implementation sequence proposed in the PIR. However, it is important to note that these guidelines were not provided to the PDT, and to our knowledge were not identified during the public workshop held to solicit public input on the sequencing of projects. We recognize that many of these represent policy issues that were being resolved concurrently during development

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of the CEPP. Since the PIR states that a robust public process will be used to integrate CEPP into the integrated delivery schedule for the south Florida restoration program, it will be important to clearly present these issues and define how they affect the implementation and sequencing plan so that all stakeholders can better understand the constraints (and opportunities) moving forward.

Figure 6-11 provides a broad view of implementation phases and sequencing of construction, but it is not clear how this schedule was derived and the logic behind the duration of the projects. More information regarding the estimated timeframes for CEPP is needed so that a realistic sequencing plan can be developed, taking into account necessary project authorizations, Federal and State funding streams, and other related requirements. The State's schedule for restoration strategies has been established, so these dates should be hard-wired into the implementation plan for CEPP. While the PIR acknowledges that completion of restoration strategies and the need for these features to meet State water quality standards prior to initiating construction, it does acknowledge that this is for *most* CEPP project features. CEPP features that may be independent of this requirement should be identified to determine whether early sequencing of project phases is feasible. Again, we stress that the sequencing effort should not hold up completion of the PIR, but rather be identified as the logical next step after CEPP and the other CERP projects with completed Chief's reports have been authorized through the next WRDA.

Project Costs:

The State of Florida, particularly the Department and SFWMD, have spent a significant amount of time and money acquiring more than 243,000 acres of land for the implementation of CERP. We commend the PDT for focusing planning efforts for storage and treatment projects on lands already in SFWMD ownership, which results in significant savings for taxpayers and puts the State's significant investments to work. Authorization of CEPP, and the other four CERP projects with completed Chief's Reports, will allow the State to receive credit for early efforts on land acquisition and construction, which is critical to balancing the 50-50 cost-share under CERP and keeping Federal construction efforts on pace.

The Department recommends continuing to work in parallel during the final approval for the PIR to further refine the cost estimates for the CEPP. The project contingencies (currently at 42 percent) in particular should be evaluated to identify further reduction in costs. In addition, almost half a billion dollars has been budgeted for additional planning, detailed design, and to oversee construction of I.3 billion dollars worth of project components (total construction cost). These estimates, which add 37 percent to the total project costs, appear to be excessive. Typical engineering costs are generally 10 percent of the project construction cost. We urge the Corps to identify ways to streamline and reduce costs associated with planning and design, and staffing, in particular. In order to continue the State's partnership with the Federal government, it is imperative to find ways to more equitably balance programmatic costs between the Corps and SFWMD as the local sponsor to more effectively balance the 50-50 cost share. These costs should be tied to the partnership agreements between the agencies to control the expenditures and ensure cost efficiency.

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Regulatory Considerations:

Upon completion of detailed design, phases of CEPP will require a Comprehensive Everglades Restoration Plan Regulation Act (CERPRA) permit under Section 373.1502, F.S. Other Department permits may be required during the construction phase of this project, as applicable. Further coordination will needed to ensure that appropriate permit type is identified early to ensure that reasonable assurances needed for regulatory authorization can be considered during detailed design. This will, to some degree, be dependent on the implementation sequencing plan developed for all of CEPP, so it is important that regulatory considerations be incorporated into the sequencing development process. The Corps and the SFWMD should work closely with the Office of Ecosystem Projects to ensure that the appropriate regulatory milestones are built into not only the overall plan for CEPP, but also for individual project schedules, and are consistent with the requirements of the existing State and NPDES permits.

While further refinement of the implementation and sequencing plan and cost estimates are needed, and further action to address water quality issues may be required, at this stage, the Department supports the implementation of CEPP and believes the plan complements the State's efforts to restore water quality and our continued commitment to the restoration of the Greater Everglades ecosystem. We would like to reiterate, however, that any changes to the negotiated language or principles established in the PIR could impact the State of Florida's ability to find the CEPP plan, or phases of the CEPP plan, consistent with the enforceable policies of the Florida's federally approved Coastal Management Program and effect the State's ability to act as the local sponsor.

Provided there are no changes that require further discussion and negotiation between the State of Florida and the Federal government, the Department supports continuing forward with the CEPP approval process on an expedited schedule. The State of Florida has expedited the necessary reviews to determine whether or not the project, as currently proposed, is consistent with the requirements of State law. We strongly urge the Corps and other Federal agencies to continue in this expedited fashion and commit to streamlining and expediting the remaining reviews through the vertical team in order to position the final PIR for authorization in any potential future WRDA bill. Completion of CEPP will also serve to demonstrate success of the nationwide pilot program, which will garner further support for inclusion of the expedited feasibility program in a final WRDA.

Please see Attachment 1 for more detailed comments on individual sections of the PIR. The Department sincerely appreciates the opportunity to provide comments on the CEPP. We look forward to continued cooperative discussions regarding revisions to the Appendix A Compliance Methodology and continuing our partnership with the SFWMD, Corps, and other State and Federal agencies in restoring America's Everglades. Should you have any questions regarding our comments, please contact Ms. Stacey Feken at 850-245-3176.

ec: Ernie Marks, Frank Powell, Chad Kennedy, Inger Hansen, Jerilyn Ashworth, Jennifer Carpenter, Gus Rios, Stacey Feken, Kelli Edson, Deinna Nicholson, Jordan Pugh, William

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Rueckert, Brian Dougherty, Marianne Gengenbach, Paula Allen, Sheryl Boutin, Tom Butler, Chris Becker, Valinda Subic, Gregory Walker, Pamela Sweeney, Ann Lazar, Beth Alvi, Katie Hallas, Ken Kuhl, Lauren Milligan

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Attachment 1: Specific Comments:

Section 2.5.9 Picayune Strand Restoration Project, page 2-17: This section gives very specific project features (83 canal plugs and 227 miles of road removal). These may not be completely accurate and it may be better to give more broad ranges (up to 260 miles, plugs placed in 48 miles of canals).

Section 3.2.1.3, page 3-11: As noted in the text, plan formulation and modeling performed during screening included provisions to modify the operations of Lake Okeechobee within the existing operational flexibility available in the 2008 Lake Okeechobee Regulation Schedule Study (LORSS). However, the PIR states that the assumptions made during CEPP formulation ultimately extended beyond this flexibility due to adjustments made to the tributary/climatological classifications. This section implies that a separate NEPA analysis will be necessary, which is surprising given the careful consideration the PDT placed on working within the existing LORSS. Please clarify whether or not a NEPA analysis to evaluate the assumptions made during CEPP formulation will be needed, along with an explanation and justification for these changes.

Section 3.2.2.1, page 3-22: As part of plan formulation, the need to provide new or modified pump stations to distribute flows across northern WCA 3A was considered as the infrastructure at the existing S-8 pump station is over 40 years old and may require repair or replacement. This does not appear to be acknowledged in the PIR in this section or the alternatives as presented in section 3.0. However, the engineering appendix includes the design of a new gated culvert structure and a new canal rather than retrofit or replacement of the existing structure. Please provide an explanation for this change, along with an analysis to demonstrate that the existing pump station can handle the additional lift required, which may potentially affect flood protection capacity at the S-8 pump station. Also, has the cost-effectiveness of the new design as compared to the original plan proposed by the PDT been evaluated? The PIR indicates that there will be further analysis of the S-8 pump station during detailed design.

Section 4.2.2.1, page 4-13: The habitat unit calculations provided appear to be based an assumption that benefits will be achieved starting from year 2022, and that about 50% of the Greater Everglades (WCA 3 and ENP) benefits are achieved in the first two years. However, elsewhere in the PIR, it states that most of the associated features will not be constructed before 2029. Please provide a more detailed explanation for these calculations, as it appears that 50% of the benefits occur before construction starts. Please verify that the same schedule has been included in all parts of the report.

Figure 6-10, page 6-18: Figure label incorrectly makes reference to 1989 as a wet year. Top of the figure shows the year to be 1995. Text in the label needs to be corrected.

Section 6.1.3 Project Operations, page 6-9: Will each phase have its own stand-alone Project Operating Manual (POM), or will the overall CEPP POM be submitted with each phase, with

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modifications specific to the phase? This could impact how the Department evaluates projects from a regulatory perspective.

Section 6.4, page 31: The text explaining cost estimates for the TSP states that costs were estimated at Fiscal Year 2013 and escalated to October 2015 price levels "to coincide with the expected project authorization." If the actual expected date is 2015, then all cost estimates should be reported at the 2015 price level (currently some are FY 2013).

Section 6.7.1: It is not clear how Figure 6-11 was derived and the logic behind the duration of the projects. For example, why does it take 9 years to construct the Flow Equalization Basin (FEB)? Please provide further explanation.

Section 6.7.3 Construction, page 6-42: This section regarding construction sequencing and phasing should also consider permitting requirements and reasonable assurances needed. Early coordination with the Department will help streamline the permitting process. Please include timeframes associated with the permitting process.

Section 6.9.3 Water Quality and Effects on State Facilities, page 6-50: The PIR states that "...discharge permits with associated effluent limits will govern discharges from the state facilities." Note that this is only relevant when discussing STA facilities permitted under the NPDES and EFA watershed permits. Please make the appropriate clarification.

Section 7.1.2 FEB Operations, page C-32: The last bullet states that no supplemental water supply is provided to the FEB to prevent dryout. Please note, however, that the FEB is expected to provide some treatment and through adaptive management, operation of the FEB should work towards optimizing performance. During permitting of the State's A-1 facility, we discussed monitoring to address dryout and Science Plan efforts to determine what adaptive management techniques should be implemented. The A-1 Adaptive Operations and Management Plan (AOMP) is referenced on page C-43. We recommend utilizing a similar approach for the A-2 FEB for consistency.

Section 7.3 Compliance with USACE CERP Agricultural Chemical Policy, page 7-8: The Department's Waste Compliance Assistance and Enforcement Section provided a memorandum dated April 4, 2013, regarding the Phase II Environmental Site Assessment for A-2 Flow Equalization Basin. The Department's review was performed following the "Protocol for Assessment, Remediation and Post Remediation Monitoring for Environmental Contaminants on Everglades Restoration Projects" known as the White Paper. Based on this memorandum, please also include barium in the list of contaminants that will be sampled. Also, please clarify that initial operations includes a start-up operation sampling event that should be performed at the 30-or 60-day period from inundation, as well as an additional surface water sampling event that should be performed after one year of operations.

Section 7.4, page 7-9: Please change Florida "Stature" to "Statutes."

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Section 7.4, 2nd paragraph: Reference is made to the SFWMD's State Compliance Report required by Section 373.1501, F.S., being included in Annex B. As noted elsewhere in the document, the draft PIR does not contain this report, it only includes "Analyses Required by WRDA." Please coordinate with the SFWMD to ensure that sufficient and timely information is provided and that the report is included in the final PIR.

Section 9.0: We recommend revising this section to recognize stakeholders that actively participated and provided meaningful contributions during the CEPP planning process. In addition, the list of preparers and reviewers does not appear to fully represent everyone that contributed to writing sections of the PIR.

CEPP Appendix B Cost Engineering: The PIR states that the construction cost estimate may be further refined after the release of the draft report (section B.1.6). As noted elsewhere in our comments, the Department supports further refining costs to ensure that the proposed TSP is cost effective. Based upon the cost breakdown provided in this section, the FEB accounts for approximately 43% of the total construction cost for the TSP. During plan formulation, the FEB was retained as a cost effective management measure based upon the cost effectiveness (preliminary cost of \$175 million versus \$1.2 billion for the 12-foot-deep reservoir). The assumptions associated with the A-2 FEB appear to be very high, in part based upon the assumptions that went into the engineering design for this facility. Please provide more details regarding the development of costs for the four alternatives and an explanation for the high cost of this facility.

Section B-3: This section provides a breakdown of the cost estimates for each structural component of the Tentatively Selected Plan. The most costly feature of the plan is the FEB and the associated infrastructure. The estimated construction cost for the 14,000-acre A-2 FEB is approximately \$480 million, where the 2013 FY contract cost is estimated at \$338 million at the remaining cost are contingencies (42% or \$142 million). The SFWMD recently received bids for construction on the A-1 FEB that the State of Florida is constructing under Restoration Strategies, which ranged from approximately \$60 million to \$88 million. The low bid was just less than what the SFWMD engineering division had estimated and previously shared with the Corps.

The two FEBs are similar in many ways – size, requirements, location, and both use the same inflow pump stations and require the same type of levees and distribution system. Therefore, it is unclear why there is such a large discrepancy in the cost estimates for both facilities. In reviewing the cost and engineering appendices it appears the Corps design is quite different for A-2 FEB and costs estimates were used for Kissimmee River structures rather than more recently constructed adjacent projects such as STA 3/4 and Compartment B. We strongly urge the Corps work closely with the SFWMD to further refine design and costs estimates to ensure that a feasible and cost-effective alternative for the A-2 FEB can be constructed.

Section B-6, page B-31: There is a statement that the Total Project Cost Summary (TPCS) was prepared based upon the scope of the recommended plan and the "official project schedule".

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There appear to be a number of inconsistencies in the scheduling assumption throughout the Draft PIR and it is not clear which schedule is assumed here. Please provide the schedule that was used for the TPCS estimate. If this is the same schedule as provided in section B.4, please make reference to the schedule provided there.

Section B-6.1: The total cost summary sheet is dated July 1, 2013. The total project cost shown is \$2.2 billion. It is our understanding that total costs have been updated to include consideration of the local sponsor's input, and are approximately \$400 million less than what is shown here. Please revise and update this text accordingly.

Appendix C Environmental and Cultural Resources, Section C.2.2.7.13: The majority of Appendix C compares the Alternatives to the Future Without (FWO) condition rather than Initial Operating Regime Baseline 1 (IORBL1). In Section C.2.2.7.13, two sentences are dedicated to explaining impacts to Biscayne Bay when alternative 4R2 is compared to IORBL1. Please further clarify the difference of the IORBL1 and FWO in relation to Biscayne Bay. Please explain how reasonable assurances will be provided to ensure that operations will be changed in order to prevent these negative impacts to Biscayne Bay. (See our comments on Annex D.)

Appendix E Plan Formulation: Several tables in this chapter have formatting issues where the text is not legible (text on top of text) or not visible. Example, Table E1-45 is in part not legible because of double print formatting, Table E1-42 is cut off; the last row missing portion of text. Please revise.

Section E.1.5, page E1-30: The expected cost range of the FEB is given as 360-550 million (\$ is missing). These figures do not match the costs provided in the table on the next page (Table E1-18), nor do they match the preliminary estimates used during plan formulation (\$175 million). Please explain how the costs were determined. The PDT estimated approximately \$1.2 billion estimate during the screening process for the cost of the 12-foot-deep reservoir, whereas Table E1-18 shows approximately \$2 billion. Please provide an explanation regarding the change in cost estimates here and in Appendix B.

Table E1-44 and Table E1-45: These tables appear to utilize preliminary cost estimates that were used during screening. Please explain how the costs for this section were derived. We also recommend reviewing this section to ensure that a consistent approach was used in this section and elsewhere in the PIR. These costs do not appear to match the higher cost estimates that are provided in Appendix B. Additionally, the Cost column needs units displayed.

Annex B Analysis Required by WRDA 2000 (Project Assurances):

Section B, Table B4 identifies Biscayne Bay as an existing Legal Source/ User under (v)
Water supply for fish and wildlife. Since Biscayne Bay is part of the Savings Clause, as
noted above, monitoring may need to continue for longer than the durations listed in
Annex D. Please review and revise as necessary.

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• Section B.2.1 (page B-6) states that Compared to the FWO baseline the updated IORBL1 indicates a significant hydrologic difference with response to the St. Lucie Estuary and Biscayne Bay, with other portions of the CEPP Project area performing similar to the FWO. A summary of these performance differences between the FWO and IROBL1 is provided in Appendix C.2.2 for St. Lucie Estuary and Biscayne Bay. Comment: This hydrologic difference is not adequately explained in Appendix C. Please revise the text accordingly. See Appendix C, Section C.2.2.7.13 comment above.

Annex C:

- The Draft Project Operation Manual does not provide any detail regarding implementation of supplemental deliveries to Biscayne Bay to meet the conditions simulated during modeling. Since the supplemental deliveries were a critical component of meeting the savings clause analysis for water related needs for Biscayne Bay, please provide some discussion of what is planned in the Draft Project Operation Manual.
- Annex C, page C-14, Figure 3-6 South Dade Conveyance System Map has an icon in the Legend for a Temporary Pump but none are visible on the map. If there are Temporary pumps, please identify them and coordinate with the SFWMD to ensure the most recent shapefiles were used.
- Please provide the shapefiles used to make line segments, points, and areas for Alternative 4R2.
- Annex C, DPOM, Section 4.7: capitalize "Seaside Sparrow".
- Annex C, DPOM, page C-27, last sentence of first paragraph states, "a one-year field test
 to incrementally relax the G-3273 operational constraint is under consideration for 20132014." The recent draft EA actually extended into January 2015. Please correct.
- It appears that the S-152 currently under construction as part of the Decomp Physical Model is not referenced in this Annex or main report. Pages C-12 to C-13, Figure 3-4 WCA-3A Map and Figure 3-5 WCA-3B Map. Please reconcile.

Annex D Adaptive Management:

Section 1.4.4.2 and Figure D.1.11: This section covers the CEPP Hydrologic Effects on the Lower East Coast Ecosystems and it covers the CEPP Uncertainty #62: Will the constructed and operational features of CEPP reduced surface and/or groundwater base flows and wetland/groundwater recharge to the east of the L-30 and L-31N in areas such as the Pennsuco Wetlands, south Miami-Dade wetlands, and Biscayne Bay? The adaptive management plan provides monitoring attributes and timeframes, thresholds, and suggested management options.

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Comments:

- <u>Timeframes and Attributes</u>: It is unclear when the monitoring timeframes for each of the attributes will be started and completed. For the attributes that have listed only a 7-day time frame, please elaborate on if it is a one-time 7-day monitoring period or if multiple 7-day monitoring periods are proposed. For example, wetland and canal/creek stage monitoring is proposed for 7 days. It is unclear how one monitoring event can determine long term effects.
- <u>Timeframes and Attributes:</u> The selected durations for the nine attributes should be explained, and possibly extended, as some of the timeframes are not long enough to see if the proposed thresholds are exceeded.
- <u>Triggers and Thresholds</u>: The 3rd paragraph identifies the Biscayne Bay reservation as "proposed" instead of "approved." Please revise, as the rule was adopted July 2013.
- Thresholds and Management Options: The management options state that there will be changes in operations for Biscayne Bay if any of the thresholds are exceeded. The operations as they impact Biscayne Bay are not discussed in the Draft Project Operation Manual (Annex C) and, therefore, it is not clear how the operations can be modified to address the exceedances of proposed thresholds. The current operation plan is driven by stage triggers and since most of the management options are not stage related, the integrations need clarification. Please review and address appropriately.
- Figure D.1.11, page 1-96: This figure shows that monitoring for the lower east coast is expected to start in year 7 with 2-3 years of baseline monitoring. The post construction monitoring begins in year 9 and ends around year 18. It appears that the overall monitoring will be ongoing for 10-11 years. Please note that since some of this monitoring is required for saving clause assurances, extended monitoring period may required. Please describe how the attributes ties into this monitoring schedule.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

October 11, 2013

Ms. Lauren P. Milligan Environmental Manager, Florida State Clearinghouse Florida Department of Environmental Protection 3900 Commonwealth Boulevard, MS 47 Tallahassee. FL 32399-3000

Subject: Department of the Army, Jacksonville District Corps of Engineers
Central Everglades Planning Project Draft Integrated Project
Implementation Report and Environmental Impact Statement dated
August 2013

Dear Ms. Milligan:

The South Florida Water Management District (SFWMD) appreciates the opportunity to provide comments on the Draft Project Implementation Report (PIR) for the Central Everglades Planning Project (CEPP) in accordance with the requirements of the regulations implementing the National Environmental Policy Act (NEPA), 40 C.F.R. Part 1503. The SFWMD is authorized to act as the local sponsor for CERP projects and has played an integral role in the development of the CEPP PIR by providing technical resources to the U.S. Army Corps of Engineers (Corps). The Governing Board at its August meeting unanimously supported release of the Draft PIR for public comment and provided guidance upon which continued support for CEPP is contingent.

The Draft PIR covers policy issues that the SFWMD identified in its scoping comments dated January 20, 2012. Specifically, the SFWMD identified three issues of significance at that time:

- · Water quality requirements, assumptions, and cost share
- Use of existing SFWMD owned lands in project formulation
- Inclusion in the CEPP "Future With Project Condition" of specific project features identified in the June 1992 General Design Memorandum and Environmental Impact Statement for Modified Water Deliveries to Everglades National Park

In addition, the following additional issues of significance arose during the CEPP PIR planning process:

- OMRR&R cost share and integrated operation of state facilities
- Phased implementation and need for multiple Project Partnership Agreements

SFWMD staff received Governing Board guidance on these issues most recently in a Board resolution passed in August (attached). These issues were resolved in the Draft PIR through language that was carefully negotiated by the state and the federal governments. As the final PIR is developed, it is imperative that the Corps preserve the language used and the plan established for resolution of these issues.

Water Quality Requirements, Assumptions, and Cost Share

A fundamental assumption of CEPP is that the SFWMD will treat 877,300 acre/feet of water on average currently flowing into the Everglades Protection Area (EPA) through the central flow path of the Everglades Agricultural Area (EAA) utilizing the facilities identified in the state's Everglades Water Quality Restoration Strategies Plan finalized in 2012. The state of Florida has established its commitment to complete Restoration Strategies through passage of House Bill 7065 in 2013, which provides a recurring dedicated source of funds to implement the \$880 million plan. The Recommendation Section of the PIR in Paragraph v. recognizes that all features of the state's Restoration Strategies must be completed and meet state water quality standards prior to initiating construction of most CEPP project features. The Corps must continue to recognize that CEPP can only be implemented once the SFWMD is in compliance with the requirements of the National Pollutant Discharge Elimination System watershed permit, the Everglades Forever Act watershed permit and the associated consent orders for the operation and maintenance of the Everglades Stormwater Treatment Areas.

As part of its scoping letter, the SFWMD expressed its concern that the redistribution of additional water flow into the Greater Everglades would cause violation of the Settlement Agreement/Consent Decree provisions for water quality flowing into Everglades National Park. In order to implement CEPP, the compliance methodology currently found in Appendix A of the Consent Decree must be updated. Moreover, it is possible that implementation of CEPP will require development of additional features to ensure that the water made available by CEPP meets state water quality standards. The Recommendations section of the PIR in Paragraph z. contains the language setting forth the process and scope for accomplishing these goals. This language was negotiated at the highest levels with the Department of the Army and state government. It is imperative that all parties follow through with this important commitment to develop a scientifically supportable revised compliance methodology and to continue to assess whether additional water quality features are necessary to treat additional water moved into the Everglades. Failure to reach agreed upon revisions to Appendix A and a cost share agreement on any additional water quality features needed as a result of CEPP implementation will impact the state's ability to approve and/or implement these projects.

¹ United States v. South Florida Water Management District, et al. Case No. 88-1886-CIV-Moreno (U.S.D.C., S.D. FLA.)

The Corps must also continue to recognize that CEPP project features must meet state water quality standards. The Recommendations section in Paragraph w. acknowledges the interdependencies of and the necessity for phased implementation in order to assure water quality compliance is met.

Use of Existing SFWMD Owned Lands in Project Formulation

It has been clearly communicated to the public and stakeholders that the CEPP will focus on the initial increment of restoration for the central Everglades. In order for this initial increment to be implemented in the most expeditious and cost effective manner, formulation of CEPP project features must be undertaken utilizing lands currently owned by SFWMD. The Tentatively Selected Plan (TSP) meets this requirement. If there are any proposed changes to the TSP, these must be limited to lands within state ownership. The SFWMD will not support a CEPP TSP that requires additional land acquisition for storage and/or treatment for this initial increment.

Completion of Modified Water Deliveries to Everglades National Park and Development of an Operational Plan

Planning, design and construction of the features associated with Modified Water Deliveries to Everglades National Park is 100 percent the responsibility of the federal government (see Everglades National Park Protection and Expansion Act of 1989, Sec. 104 (16 U.S.C. 410r-8)). Certain project features that were originally envisioned to be completed as part of Modified Water Deliveries have been refined in the CEPP planning process and are included in the TSP. These include surrogates for the following components:

- 1. S-345A, S-345B and S-345C
- 2. S-349A, S-349B and S-349C
- 3. S-356 Pump (1,000 cfs)
- 4. Degrading the remaining five miles of the L-67 Extension Canal and Levee

SFWMD agrees to cost share construction and operation of the surrogate features developed for CEPP under the CERP authority, Section 601(e) of the Water Resources Development Act of 2000. The PIR identifies all remaining elements of Modified Water Deliveries that are either completed or under construction. See PIR at Sec. 2.5.7. These features must be finished and a water control plan developed as a precursor to CEPP implementation. The additional water identified in CEPP cannot be brought south until Modified Water Deliveries is fully operational.

OMRR&R Cost Share and Integrated Operation of State Facilities

In order for CEPP to be implemented in the most cost effective and efficient manner, integration with state owned and operated facilities is required. Section 8 District's

Engineers' Recommendations of the PIR sets forth this understanding and includes a cost share percentage of 9.5% for the operation, maintenance, repair, replacement, and rehabilitation (OMRR&R) costs of the state facilities used by CEPP. It also clearly defines the state and federal roles; the state and the Corps have joint responsibility over OMRR&R decisions for the integrated Flow Equalization Basin feature, while the state retains sole authority over OMRR&R decisions for state owned facilities. The Corps must continue to recognize the state's sovereign role in operations of state facilities whose primary purpose is to ensure compliance with state water quality standards. Moreover, the Governing Board has stated in the attached Resolution that the OMRR&R cost share issues of state-owned and operated facilities to be used by CEPP will need to be resolved in a manner favorable to the SFWMD and such cost-share responsibility included in the CEPP Final PIR/EIS.

Phased Implementation and the Need for Multiple Project Partnership Agreements

The PIR recognizes that CEPP will be implemented over an extended time frame. As a result, CEPP is composed of implementation phases that include features or logical groupings of plan features. The PIR also recognizes dependencies on both CERP and non-CERP projects that must be in place prior to the implementation of CEPP. Many of these will require integration into the sequencing of CEPP to avoid unintended adverse consequences, and to allow for restoration benefits to be achieved as early as possible. Moreover, the SFWMD and the Corps will need to ensure that the cost share balance for CERP implementation is maintained over this extended implementation period. The Recommendations Section of the PIR at Paragraph y, contains language recognizing these contingencies and the important role of the Adaptive Management and Monitoring Plan in shaping the implementation phases. It specifically identifies the ability of the SFWMD and the Corps to enter into individual Project Partnership Agreements (PPAs), or amendments to existing PPAs for construction of each implementation phase. The flexibility provided by this language is essential to successful CEPP implementation given the uncertainties associated with the lengthy implementation period and the inevitable improvement in scientific knowledge about the functioning of the greater Everglades that will occur as planned CERP and Non- CERP projects are completed.

In the Resolution approving the draft PIR's release for public review and comment, the Governing Board acknowledged that the document is subject to further review by the public, state and federal agencies as well as the Corps headquarters and Department of Army. The Board specifically required that any substantive changes must be reviewed and approved before release of the Final PIR. It is critical that the Corps follow through with the commitments contained in the Recommendations Section of the Draft PIR. Any changes to the agreed upon language could impact SFWMD's ability to accept the role of local sponsor. Governing Board direction has been clear; the Board expects to see

the agreed upon language contained in the Recommendations Section mirrored in the Chief of Engineer's Report and Record of Decision for the CEPP project.

The SFWMD has demonstrated a continued commitment to strengthening and fulfilling our role as local sponsor for the Comprehensive Everglades Restoration Plan through its support of the CEPP planning process. We look forward to a continued commitment from the Corps on these important policy issues so that CEPP can move from the planning to the authorization phase. Should there be any questions associated with the SFWMD comments, please contact Tom Teets, Federal Policy Chief at (561) 682-6993 or tteets@sfwmd.gov.

Sincerely,

Blake C. Guillory, P.E.

Executive Director

South Florida Water Management District

BCG/pv Attachment

c: Ernie Barnett, SFWMD Eric Bush, USACE Colonel Alan Dodd, USACE Temperince Morgan, SFWMD Matthew Morrison, SFWMD Kimberley Taplin, USACE Tom Teets, SFWMD

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

RESOLUTION NO. 2013-08/5

A RESOLUTION OF THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT SUPPORTING THE RELEASE FOR PUBLIC AND AGENCY REVIEW OF THE CENTRAL AND SOUTHERN FLORIDA, CENTRAL EVERGLADES PLANNING PROJECT, DRAFT INTEGRATED PROJECT IMPLEMENTATION REPORT AND ENVIRONMENTAL IMPACT STATEMENT, DATED AUGUST 2013 BY THE U.S. ARMY CORPS OF ENGINEERS; PROVIDING AN EFFECTIVE DATE. (EXO, ERNIE BARNETT, EXT. 2110)

WHEREAS, Congress, in Section 601 of the Water Resources Development Act of 2000, approved with modifications the Comprehensive Everglades Restoration Plan (CERP) contained in the Final Integrated Feasibility Report and Programmatic Environmental Impact Statement, dated April 1, 1999, as a framework for making modifications and changes to the Central and Southern Florida Project; and

WHEREAS, the Central Everglades Planning Project (CEPP) is composed of increments of major CERP components that will provide significant environmental benefits to the central Everglades ecosystem, the St. Lucie Estuary and the Caloosahatchee Estuary, and will help meet the other water-related needs of the region; and

WHEREAS, the CEPP Recommended Plan will improve the quantity, quality, timing, and distribution of water into Water Conservation Areas 3A and 3B, Everglades National Park, and Florida Bay by adding an average of approximately 210,000 acre-feet per year of additional freshwater flow in the central Everglades; and

WHEREAS, this additional water will help restore pre-drainage vegetative communities and habitat for fish and wildlife while providing incremental restoration of natural processes critical for the development of peat soils and tree islands, which are essential features of the Everglades ridge-and-slough landscape; and

WHEREAS, the Recommended Plan will reduce the number and severity of highvolume discharges from Lake Okeechobee into the St. Lucie and Caloosahatchee Estuaries and will improve salinity in these estuaries; and

WHEREAS, the Recommended Plan will improve the salinity in Florida Bay resulting in greater abundance and diversity of sea grasses and other estuarine plant and animal species; and

whereas, the recommended Plan will increase public water supply in Broward and Miami-Dade Counties by approximately 12 and 5 million gallons per day, respectively; and

WHEREAS, the Recommended Plan will also maintain water supply for agricultural users in the Lake Okeechobee Service Area and the Seminole Tribe and will also maintain current levels of service for flood protection in the CEPP study area; and

WHEREAS, the expedited planning process for the development of the CEPP Draft Integrated Project Implementation Report and Environmental Impact Statement (CEPP Draft PIR/EIS) required extensive coordination and input by the public and federal, Tribal, state, and local resource management and regulatory agencies; and

WHEREAS, assurances are included in Sections 6 (Tentatively Selected Plan) and Section 8 (Recommendations) of the CEPP Draft PIR/EIS, including with respect to water quality compliance, Project cost-share, and Project interdependency and phasing with other CERP and non-CERP Projects, that enable the Governing Board of the South Florida Water Management District to support the release of the CEPP Draft PIR/EIS;

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

<u>Section 1</u>. The Governing Board of the South Florida Water Management District hereby supports release of the CEPP Draft PIR/EIS by the U.S. Army Corps of Engineers for public and agency review.

<u>Section 2</u>. The U.S. Army Corps of Engineers' cost-share of operation, maintenance, repair, replacement, and rehabilitation of State-owned and operated facilities to be used by CEPP will need to be resolved in a manner favorable to the South Florida Water Management District, and such cost-share responsibility included in the CEPP Final PIR/EIS.

Section 3. The Governing Board acknowledges that water quality issues need to be resolved prior to implementing CEPP projects. Issues include the need to revise the compliance methodology of the Consent Decree (Appendix A) and also to reach agreement on joint measures which may be needed in the event of an exceedance of Appendix A resulting from a change in operation of a federal project. Failure to develop a mutually agreed upon revised compliance methodology or mutually agreed upon joint measures will preclude the State from implementing, approving, or operating CEPP projects.

Section 4. The Governing Board acknowledges that project elements cannot proceed unless/until it is determined that construction and/or operation of the feature: will not cause or contribute to a violation of water quality standards; and will not cause or contribute to a violation of the permit(s) discharge limits or specific conditions; and reasonable assurances exist that demonstrate adverse impacts on flora and fauna in the area influenced by the project element will not occur.

<u>Section 5</u>. The Governing Board acknowledges that the CEPP Draft PIR/EIS is subject to further review by the public, State and Federal agencies as well as Army Corps of Engineers headquarters and Department of Army. Any substantive changes will require the review and approval of the Governing Board of the Final CEPP PIR/ EIS.

<u>Section 6</u>. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 15th day of August, 2013.

	SOUTH FLORIDA WATER MANAGEMENT
ATTEST:	DISTRICT, BY ITS GOVERNING BOARD
District Clerk / Secretary	By:OKeigle Chairman
Approved as to form:	FLORIDA MANAGERIA
By: Me Corm Office of Counsel	SEAL Seblished Washington
ABR Coopen	103 • 100 ·
Print Name	

Office of Agricultural Water Policy (850) 617-1700



Magnolia Center, Suite 200 1203 Governor's Square Boulevard Tallahasseb, Florida 32301

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES COMMISSIONER ADAM H. PUTNAM

October 9, 2013

Lauren P. Milligan, Coordinator Florida State Clearinghouse Florida Department of Environmental Protection 3900 Commonwealth Blvd, M.S. 47 Tallahassee, FL 32399-3000

Dear Ms. Milligan:

The Florida Department of Agriculture and Consumer Services (FDACS) appreciates the opportunity to provide comments on the Draft Integrated Project Implementation Report and Environmental Impact Statement (PIR/EIS), Central Everglades Planning Project (CEPP) — South Florida. We are submitting the following comments for consideration as part of the Florida State Clearinghouse consistency evaluation. (We have also attached more detailed staff comments.)

As noted in the draft PIR/EIS, WRDA 2000 requires preparation of a PIR to implement components of the Comprehensive Everglades Restoration Plan (CERP). CEPP does not implement any CERP components, instead it provides a conceptual plan for a suite of CERP components. The CERP components included in the CEPP will not be implemented for many years and likely under different conditions than exist today. Further, the detailed project planning and analyses that would normally be conducted for PIR purposes have not occurred for these components. While we recognize the value of the CEPP as a planning process, we do not believe it satisfies the planning requirements necessary for preparation of a PIR to implement CERP components.

Implementation of the CERP components included in the CEPP is constrained by the WRDA 2000 Savings Clause. This is clearly recognized in the draft PIR/EIS, which indicates that completion the C-44 Reservoir (IRL-S) and connection to the C-23 Canal, as well as modification of the Lake Okeechobee Regulation Schedule, must occur in order satisfy the requirements of the Savings Clause. There is certainly value in recognizing these future



Lauren Milligan September 17, 2013 Page Two

constraints, but we believe their resolution should occur within the context of PIRs prepared for implementing the CERP components that are subject to such constraints.

Water quality considerations also constitute a significant barrier to implementing the CERP components included in the CEPP. The draft PIR/EIS identifies a number of "project dependencies," projects that must be completed and operational, or conditions that must exist, prior to implementation of the CERP components included in the CEPP. In regard to water quality the draft PIR/EIS provides, "All features of the State's Restoration Strategies must be completed and meet state water quality standards prior to initiating construction of most CEPP project features," (Pp. 6-38). If those water quality improvement features are completed and operational by 2029 as currently anticipated, there would still need to be a determination that the CERP components included in the CEPP would not cause or contribute to a violation of State water quality standards. Again, an issue that we believe would best be addressed when the detailed project planning occurs for the affected CERP components.

The recommended plan resulting from the CEPP provides a blueprint for the future implementation of a suite of related CERP components, and should be viewed as provisional. Project dependencies associated with the plan are substantial, and experience suggests that conditions may be very different by the time any of these components are implemented. We are concerned that PIR requirements for CERP components are being deferred to other undefined processes. For example, the draft PIR/EIS indicates that the plan will be implemented in phases and that Savings Clause analyses and projected assurances will be "updated" for each implementation phase. We support the concept of implementing logical groupings of CERP components in phases, but also that each such phase should be the subject of an individual PIR.

Thank you for the opportunity to provide Clearinghouse comments. If you have any questions regarding FDACS' comments, please contact Ray Scott at (850) 617-1716 or Rebecca Elliott at (561) 682-6040.

Sincerely,

W. Ray Scott

Environmental Administrator

WRS/bh

FDACS Staff Comments

Central Everglades Planning Project – Draft Integrated Project Implementation Report and Environmental Impact Statement, August 2013 (CEPP Draft PIR & EIS)

FDACS' review focused on actions and projects contained in the CEPP Draft PIR & EIS which may impact private agricultural lands and agricultural operations in the study area. The comments below are specific to the topics addressed and do not constitute a review of the entire CEPP Draft PIR & EIS and its supporting Annexes and Appendices.

General Concerns

<u>Permittability and relationship to Preconstruction Engineering and Design (PED) and Project</u> Partnership Agreement (PPA)

The CEPP Draft PIR & EIS presents a conceptual plan containing many components that are projected to be implemented in separate phases over a time frame encompassing the years between 2023 to 2040 – and beyond. The text and documentation provided in many sections to address this is appreciated, particularly Section 6 – Tentatively Selected Plan, Section 8 – District Engineer's Recommendation, Annex B – Analyses Required by WRDA 2000, and Annex C – Draft Project Operating Manual that acknowledge the uncertainties inherent in this planning process due to modeling limitations and uncertainties, engineering and design limitations during the CEPP planning process, and unknowns associated with the future conditions scenarios developed for CEPP planning purposes.

The CEPP Draft PIR & EIS recognizes that permittability can only be determined based on real world conditions existing at the time of project component implementation. Compliance with Florida rules, regulations and statutes regarding CERP as well as Federal rules, regulations, and statutes regarding CERP can only be evaluated with an acceptable level of confidence when specific project components are in the Preconstruction Engineering and Design (PED) phase during which project assurances, savings clause analyses and operating manuals will be updated consistent with the implementation phases (Section 6 – page 6-42 – 6.7.2). Annex B, B.4.5 page B-71 states that "The Corps and the District will undertake updated project assurances and savings clause analyses for the implementation phases that are selected to be included in a Project Partnership Agreement or amendment thereto prior to entering into the PPA or PPA amendment." The CEPP PIR should provide a comprehensive description on what PIR elements will be covered in the PED and PPA to ensure compliance with CERP's programmatic requirements and any applicable regulatory requirements. We recommend that these issues be addressed in a separate subsection of 6.7 – Plan Implementation so the expectations and strategy are well-defined and vetted during the CEPP PIR & EIS public review process. We believe this

is necessary to make it clear that regulatory and programmatic requirements are left unresolved and will need to be addressed prior to implementation of CEPP project components.

Replacement of the Everglades Agricultural Area (EAA) Storage Reservoir Project with alternative projects is not sufficiently described and addressed in the CEPP Draft PIR & EIS.

It is misleading to describe CEPP as an increment of the EAA Storage Reservoir Project. More accurately, CEPP completes the elimination the EAA Reservoir Project benefits; the EAA Storage Reservoir Project footprint is to be used for the A1 FEB (SFWMD Restoration Strategies) and the CEPP A2 FEB. On page ES-3, the first bullet describes Component G as "Everglades Agricultural Storage Reservoirs". The term should be "EAA A2 Flow Equalization Basin (FEB)" and this correction should be made throughout all CEPP documents.

The CEPP Draft PIR & EIS should describe the historic formulation of CERP, the purchase of the EAA Storage Reservoir footprint, and the earlier work of EAA Storage Reservoir Project Delivery Team. An understanding of this background explains why the replacement of the EAA Storage Reservoir Project with alternative projects is problematic to many stakeholders, including those advocating for capacity to convey larger volumes of Lake Okeechobee water south, agricultural interests in the EAA that are losing the opportunity for their water supply to be "off the lake" along with some flood risk reduction, and ENP where deliveries during the dry season could be increased by more storage in the EAA. The A1 FEB model results show it decreases deliveries to the Everglades National Park (ENP) and the volume of water the CEPP A2 FEB will be able to store and deliver is yet to be determined. It is unlikely that the planned CERP benefits of the EAA Storage Reservoir Project (water storage and delivery, as well as flood risk reduction) will ever be realized. Loss of benefits that were to be provided by the EAA Storage Reservoir Project and the controversy related to this decision should be acknowledged in the CEPP PIR & EIS.

Relationship to Modified Water Deliveries Project

Not including the Modified Water Deliveries operations in the future conditions scenarios because an operational plan has not been authorized for this project while including CERP projects yet to be authorized or funded is an arbitrary and unsupportable position. The Modified Water Deliveries Project facilities are in place and should be operational long before the first component of CEPP is implemented and long before the C-43 West Storage Reservoir is operational. Moreover, some evaluations estimate that once completed and operational, the Modified Water Deliveries Project can potentially deliver three-fourths of the projected CEPP volume of water to the ENP. Operation of the Modified Water Deliveries Project should have been analyzed in the future conditions scenarios, should be included in any future CEPP updates,

and any information gathered once the Modified Water Deliveries Project is operational should be used in adaptive management for CEPP features.

Project Dependencies

As described in the PIR & EIS, implementing the project components included in the CEPP depends upon completion of both CERP and non-CERP projects, which are detailed in the PIR & EIS. In some cases, project components included in CEPP cannot be permitted or comply with the Saving Clause until these other projects are complete, operating as intended, and providing the projected performance or benefits. Examples are discussed below.

Indian River Lagoon South Project/C-44 Reservoir and connection to C-23 Canal

In order for CEPP project components to meet the Savings Clause requirements for existing water supply for the Lake Okeechobee Service Area (LOSA), the C-44 Reservoir, the canal connecting it to the C-23 Canal, and the A-2 FEB must be built and operating. However, the CEPP Draft PIR & EIS creates uncertainty regarding this dependency. Page ES-7 refers to a "potential partial transfer." It is unclear what a "potential partial transfer" means and what role it plays in meeting the full transfer needed to meet the Savings Clause constraint. It should be made clear that the full transfer of water needed to meet the Savings Clause constraint is available before water can be re-directed south.

Modification to the Lake Okeechobee Regulation Schedule - currently LORS08

According to Table 6-10 (Pp. 6-39), "Changes to the 2008 LORS08 will be needed prior to the full utilization of the A-2 FEB in order to achieve the complete ecological benefits envisioned through re-directing the full 210,00 ac-ft/yr south and to avoid low Lake levels that would affect LOSA." The PIR & EIS should clearly state that the Lake Regulation Schedule must be modified to achieve the CEPP benefits projected and to maintain the level of service for water supply in the LOSA.

Water Quality

CEPP Draft PIR & EIS language states that CEPP project components cannot be implemented if agreements between the Federal and State partners cannot be reached to ensure that their implementation will not cause or contribute to a violation of State water quality standards. This has already proven to be problematic for the Modified Water Deliveries Project as evidenced by the inability to obtain a permit for operation of the 356 Pump Station in the 10 years since it was constructed. This suggests the uncomfortable, but very real possibility that the project components proposed in the CEPP Draft PIR & EIS cannot be permitted or operated.

Water Quality is also a major factor in determining the feasibility of CEPP's hallmark goal of diverting excess water from the Lake to WCA-3A. The State of Florida is in year one of a fifteen year program to implement the \$880 million project to make sure water entering the Everglades from the EAA meets the water quality based effluent limitation (WQBEL) developed by EPA and included in Clean Water Act permits for the STAs. This plan includes the construction of a FEB on the site of the former A-1 Reservoir. The FEB is an entirely new type of feature and there is no information on whether it will perform as simulated in the CEPP water quality model during the drought and flood cycles typical in this area. It will take several years of operations of the A-1 FEB before any conclusions can be drawn about the potential performance of the A-2 FEB recommended in the CEPP. This should be described more clearly in the final PIR so decision makers not as familiar with the project needed to meet the WQBEL are fully informed during the next phases of Congressional and Federal Agency review of the CEPP.

Careful consideration should be given to whether the CEPP Draft PIR & EIS should go forward before there is some certainty that these water quality issues will be resolved.

Savings Clause - No Increased Flood Risks

Model results indicated an increase flood risk in South Dade for RSM-GL cell 4382. This result is characterized as an anomaly in water levels created by model flaws rather than a condition that will exist in the real world. Any possibility that this result will be seen as legitimate by the next generation of CEPP implementers must be removed.

Section 6 – 6.8.2, Annex B.3.2.5 and Annex B.4.2 describe this model result and the review conclusion that the results indicate a Savings Clause violation but further evaluation of the results indicate they are an artifact of the model inputs for that area. However, Annex B.4.2 does not include the cell identification and Section 6.8.2 and Annex B.3.2.5 do.

The Model Documentation Report graphic of the water levels for RSM-GL cell 4382 should be labeled as recommended by the Water Supply and Flood Protection Subteam, and should be included in Section 6 and Annex B so there is no opportunity for misinterpretation of the model results as indicative of acceptable CEPP performance. The Subteam recommendation was to include the following text on the graphic itself, "The results for this cell are erroneous, not predictive of project performance, and are not being used for the Savings Clause analyses." You should also consider including language to the effect that this area will be scrutinized as part of the future process to approve implementation of individual components of the CEPP and project operations will be adjusted if necessary to ensure that the problems indicated by the current model will not occur.

Document Technical Details

- 1) Section 1 page 1-6: The first paragraph contains cfs rates but not the location associated with them.
- 2) Section 2 page 2-12, Table 2-2: The first row "Status of Non-CERP projects includes the "Seepage Barrier Near the L-31 N Levee (Miami-Dade Limestone Products Association)" in the Future Without (FWO) condition. It is our understanding that this barrier was not included in the future conditions scenarios, unless it is a different barrier than the one discussed at length in the PDT meetings.
- 3) Section 2 page 2-16, item 4.c. states that the G-3273 Relaxation and S-356 Pump Station Test (1st year) are in progress. The proper status is inactive or EIS pending.



Florida Fish and Wildlife Conservation Commission

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October 1, 2013

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Datten, William at 171.1 - 3 acc. 11.03

SAI #FL201308286704C, Department of the Army, Jacksonville District Corps of Engineers – Draft Integrated Project Implementation Report and Environmental Impact Statement (PIR/EIS), Central Everglades Planning Project (CEPP) – South Florida

Dear Ms. Milligan:

Re:

Florida Fish and Wildlife Conservation Commission (FWC) staff has coordinated our agency's review of the above-referenced project, and provides the following comments for your consideration in accordance with the National Environmental Policy Act and the Coastal Zone Management Act/Florida Coastal Management Program.

Project Description

CEPP represents a significant opportunity to restore the defining hydrologic regime of the Everglades and, as such, lies at the heart of the Comprehensive Everglades Restoration Plan (CERP). The purpose of CEPP is to evaluate alternatives for restoring ecosystem conditions in the central Everglades as well as opportunities to provide for other water-related regional needs, as required by the Water Resources Development Act of 2000. The recommended plan would achieve benefits by reducing the large pulses of regulatory flood control releases sent from Lake Okeechobee by redirecting approximately 210,000 acre-feet of additional water on an annual basis to the historical southerly flow path. One of the explicit ecosystem goals of CEPP is to rehydrate the northern part of Water Conservation Area (WCA) 3A to reintroduce peat-accretion processes in an area that has seen substantial peat loss through fires and other forms of oxidation. It also represents a substantial step in reintroducing the historic northwest to southeast water-flow pattern that characterized the Everglades before the construction of the WCAs.

Major structural components of the tentatively selected plan (Alternative 4R2) include integrating the A-1 and A-2 Flow Equalization Basins (FEBs) into the overall water management system; removing 2.9 miles of the southern L-4 levee; rerouting water in the L-5 canal; filling the Miami Canal from 1.5 miles south of the S-8 structure to Alligator Alley (Interstate 75); preserving 22 of the artificial tree islands (i.e., enhanced soil mounds) along the Miami Canal and constructing additional tree islands across the canal where they historically occurred; degrading the lower part of the L-67C levee (but not filling the canal); constructing a new north-south levee (the L-67D levee) between the L-29 levee and remaining portion of the L-67C levee, thereby effectively dividing WCA 3B into an eastern and a western half; creating three breaches in the L-67A levee and one in the L-67C levee to allow water to flow from southern WCA 3A into WCA 3B and thence

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into northeastern Everglades National Park (into Northeast Shark River Slough); constructing a new auxiliary structure at the S-333 pump station to augment its capacity; and providing a curtain wall along the northern part of the L-31N canal and levee system. Water management would be driven by naturally occurring rainfall patterns. CEPP also includes a conceptual recreation plan (Appendix F) that would address four sites in the A-2 FEB, one along the L-5 levee, and additional features in southern WCA 3A and WCA 3B. Finally, in recognition of the uncertainties inherent in this proposal, CEPP also includes an extensive program of adaptive management, a process that involves careful monitoring, learning from that monitoring, and adjusting the plans, including the Project Operating Manual (Annex C), as necessary based on new information obtained from the monitoring as the project elements are constructed.

Potentially Affected Resources

Statewide the FWC manages fish and wildlife resources for their long-term well being and the benefit of people. In the heart of the CEPP footprint, the FWC manages WCAs 2A, 2B, 3A, and 3B collectively as the Everglades and Francis S. Taylor Wildlife Management Area (EWMA). The EWMA provides recreation for the most populated sections of the southeastern United States. The FWC and its predecessor, the Florida Game and Fresh Water Fish Commission, have managed this area since 1952, when it was established. Some of the earliest reports from that period struggled with integrating the needs of Everglades fish and wildlife species with a water regulation schedule that reflected a hydrologic regime compatible with those needs.

Sections 5.2.4 and 5.2.5 of the draft PIR/EIS present a list of federally and state-listed species that may occur within the impact area. We concur with most of this list, but note that the Miami blue butterfly (*Cyclargus thomasi bethunebakeri*) should be included in the list of federally listed species (listed as Endangered). In addition, we would add the following species:

Common Name	Scientific Name	Status*
Audubon's crested caracara	Polyborus plancus audubonii	FT
Bald eagle	Haliacetus leucocephalus	**
Burrowing owl	Athene cunicularia	SSC
Florida sandhill crane	Grus canadensis pratensis	ST
Osprey (Monroe County only)	Pandion haliaetus	SSC
Roscate tern	Sterna dougallii dougallii	FT
Southeastern American kestrel	Falco sparverius paulus	ST

^{*} SSC - Species of Special Concern; ST - State Threatened; FT - Federally Threatened;
**While the bald eagle has been both state and federally delisted, it is still governed by the state bald eagle rule and the federal Bald and Golden Eagle Protection Act (see http://myfwc.com/does/Wildlifel labitats/Eagle_Plan_April_2008.pdf#page=35)

In addition to the imperiled species mentioned above and in the DPIR/EIS, the EWMA supports significant wading bird colonies; tree islands that provide upland habitat for terrestrial and semi-terrestrial wildlife, and refugia during high water events; ridge and

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slough communities; and wet prairies that are essential for the Everglade snail kite and its prey, the apple snail. Other wildlife, such as white-tail deer, raccoons, marsh rabbits, and resident and migratory birds (e.g., the mottled duck, red-shouldered hawk, a variety of passerine birds) are abundant in the project footprint. Many of these species have ecological and societal values and are managed by the FWC. The EWMA also includes some of the most popular recreational fishing opportunities in southern Florida, particularly in its canal system.

Despite the diversity of fish and wildlife species and habitats in the EWMA and Everglades National Park immediately south and downstream of the EWMA, past water regimes have caused substantial harm, particularly in WCA 2A, WCA 2B, and the northern and southern ends of WCA 3A. A combination of high water levels in southern WCA 3A have damaged tree islands, and overly dry conditions have allowed peat fires and invasion by brush in northern WCA 3A. High water levels also appear to coincide with a lack of panther use of the western part of WCA 3A over the past 20 years. During extreme high water events, tree islands and man-made levees take on additional significance as refugia for terrestrial and semi-terrestrial species (primarily mammals and reptiles), but these features provide adequate forage only for a limited time. Likewise, Everglades National Park has suffered from rerouting water that used to flow into Northeast Shark River Slough. Instead of entering the slough in the northeastern part of the park, water now enters primarily to the west, through the limited capacity of the S-12 structures.

Potential Effects and Recommendations

We recognize that CEPP will be implemented over many years and will need to include a number of phases that will have to be carefully sequenced. The FWC intends to actively participate in the adaptive management of this complex set of changes in the central Everglades to help ensure maximum benefits to fish and wildlife resources. At this time, we provide the following information and recommendations, in addition to the enclosed general comments.

High Water Stages in WCA 3A

While recognizing that best professional judgment was applied to the voluminous modeling output and incorporated in the screening and alternatives evaluation process, we note that the evaluation process omitted the previously approved and important performance measure to assess potential impacts from high water events. Without using this performance measure, it is impossible to conclude that Alternative 4R2 will produce the benefits to wildlife that the DPIR/EIS predicts because there is no way to take into account the impacts of higher water levels that it would produce in parts of the EWMA. It can also lead to the erroneous conclusion that there would be no or little impact to terrestrial wildlife species. As the system is currently constructed and operated, Table 5.2-7 indicates that the FWC would have had to close the EWMA under the modeled period of record for the Existing Conditions Baseline 15 times for a total of 511 days and 12 times under the Future Without Project baseline for a total of 441 days. Yet under Alternative 4R2 the modeled number of closures would actually increase to 18 times for a total of 613 days. The stage duration curves are consistent with this prediction, with very little if any benefit seen for southern WCA 3A. While we agree that rehydrating northern

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WCA 3A to some degree is an extremely important goal of Everglades restoration and are supportive of efforts in that direction, this predicted increased number of closures indicates that rehydration as modeled would result in unintended harm due to excessively high water levels in parts of the EWMA. Not only would this stress wildlife unduly, but we project that it would also continue the degradation of two key components of the Everglades landscape in southern and southwestern WCA 3A: tree islands and wet prairies. We maintain that closing the EWMA due to high water levels other than those caused by extreme storm events, such as hurricanes and tropical storms, is not an acceptable management option for this area.

Tree islands: Tree islands are a unique structural component of the Everglades, providing habitat for wildlife species that require some component of upland habitat with trees or brush in an overall matrix of marsh. Tree islands may occur (in order of increasing height above the slough bottom) as willow strands, bayhead swamp forests, and tropical hardwood hammocks. The last of these may be found throughout the EWMA, but are more numerous in southwestern WCA 3A and southern WCA 3B. Willow strands, which may also contain other brushy species such as pond apple, provide colonial wading bird habitat (Rodgers et al. 1996), while the bayheads and tropical hardwood hammocks may be important for neotropical migrating passerine birds (Mitchell 2010). Alligators, turtles, and snakes lay their eggs on the dry parts of tree islands (Towles 2009).

Much attention has also been given to the higher tree islands as refugia for Everglades wildlife species, such as deer, bobcats, marsh rabbits, raccoons, and small mammals. During extremely high water events, these terrestrial or semi-terrestrial species crowd onto what remains at or above water on tree islands and onto levees, where overcrowding and competition for food create physical stress (in extreme cases, resulting in death) and susceptibility to disease and parasites. This is particularly true for does, yearling, and fawns (Cornwell et al. 1970). Cornwell et al. (1970) noted that the situation became so severe during the high water events in 1957 – 1958 and 1966 that all vegetation was completely removed, the bark of trees and shrubs eaten as high up as a deer could reach, and tree island soils were trampled into mud by both deer and wild hogs.

While less information is available on impacts to Everglades wildlife species other than deer, Schortemeyer (1980) noted that water reversals during periods of naturally occurring recession have caused nest failure for alligators and turtles. FWC staff has also reported opossums, grey foxes, bobcats, and raccoons crowded on levees during high water events in 1986 and in 2005, and evidence of extensive predation on marsh rabbits during the 1986 event (unpublished GFC internal reports; T. Towles, FWC, personal communication 2013). Much of the effect on the diversity and abundance of wildlife can be inferred by changes in tree island vegetation. For example, the Andytown rookery in WCA 3A was one of the largest willow strands (over 60 acres) used by nesting wading birds before 1994; now only one-quarter acre of it remains.

Wet prairie: Wet prairies are a form of marsh dominated by emergent grass-like species, usually spikerush, beakrush, and maidencane (Gunderson 1994). Periphyton is also an important component of the submerged part of this community (Browder et al. 1994). They generally have a hydroperiod of 290 to 365 days (Goodrick 1974). Wet prairies in the EWMA have historically been important habitat for the federally endangered

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Everglade snail kite and its prey, the apple snail. Snail kites search for prey by sight, so they typically forage over relatively open wet prairie and sloughs. They capture apple snails within about four inches of the surface as the snails come to the surface to respire (Bennetts et al. 1994). Apple snails feed on the periphyton component of both wet prairies and sloughs (Browder et al. 1994). Wet prairies, as opposed to sloughs appear to be an important area for apple snail production, particularly in areas dominated by maidencane (Karunaratne et al. 2006). Water levels greater than 1.6 feet during the peak apple snail breeding season result in fewer egg clusters, fewer drying events that reduce predation, and delayed egg laying that results in the next year in a larger number of juvenile snails that are too small for snail kites. The wet prairies and the ridge and slough communities provide critical foraging habitat for a wide variety of wading birds, including those currently designated by the State as Species of Special Concern. It also provides high-quality browse for deer as long as the water depths remain below approximately 20 inches, a depth above which begins to hamper deer movement (MacDonald-Beyers and Labisky 2005).

Recommendation: The FWC has revisited the recommendations that the FWC's predecessor agency, the Florida Game and Fresh Water Fish Commission, had provided the U.S. Army Corps of Engineers in 1980 (Schortemeyer 1980) and the July 1, 2010, USFWS Multi-Species Transition Strategy for Water Conservation Area 3A (U.S. Fish and Wildlife Service 2010). Both take a multi-species approach and were based on research in WCA 3A. The former addressed four species or suites of species: the deer, the alligator, passerine birds, and the pig frog. The latter addresses tree islands, wet prairies, wood storks, Everglade kites, and apple snails. We find that these key fish and wildlife in WCA 3A are best served by water stages no higher than 10.2 feet National Geodetic Vertical Datum (NGVD) by late October to early November and then a gradual and steady recession to a low of near 8.2 feet NGVD by late May to early June as measured by the three-gauge average of the G-63, G-64, and G-65 gauges (assuming their elevations are 8.8, 8.5, and 7.4 feet NGVD, respectively). At that time, water levels would increase back to no higher than 10.2 feet NGVD again by the end of October to early November. During extreme storms or unusually wet seasons, water levels may rise above the desired high levels, but even then depths should not exceed an average of 2.46 feet for longer than 60 days. Water levels for the two-gauge average at the 62 and 63 gauges should not exceed 11.6 feet NGVD (or 10.8 feet for the three-gauge average). If this is to occur, remediating actions must be taken to drop levels within seven days.

The DPIR/EIS acknowledges that rehydrating the northern part of WCA 3A may result in the remobilization of nutrients. Recognizing that it would be beneficial to rehydrate this area and begin to restore peat-accretion processes and recognizing the potential for nutrient remobilization, we strongly recommend that CEPP take an incremental approach to introducing more water into northern WCA 3A. This approach would be consistent with the principles of adaptive management both in monitoring vegetation changes in the currently dry areas and in allowing the Project Implementation Manual to adjust water inputs into WCA 3A (and ultimately into WCA 3B and Everglades National Park) in a manner that would avoid invasion of cattails due to increased nutrient levels. It would also allow for refining the operation of the new structures to decrease the chance of flooding tree islands and wet prairies beyond their tolerances.

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Low water stages in WCA 3A

Tables 5.1-9 and 5.2-7 indicate that the EWMA is closed when water levels fall at or below a height of 9.16 feet NGVD, as indicated by the average readings at the 62 and 63 gauges. However, the actual closure criterion is at or below 9.30 feet NGVD.

Recommendation: We request that the evaluation of low water closure days be recalculated using the correct criterion.

Water levels in WCA 3B

While aerial photographs of WCA 3B indicate that the pattern of ridges and sloughs has been somewhat obscured, this area contains some of the tree islands least affected by high water levels in the EWMA. This is because this area has been subject only to what it receives directly from rainfall and what it loses from seepage and evapotranspiration. With the introduction of water into WCA 3B from WCA 3A, there will need to be careful monitoring of water levels to ensure that inflows equal outflows. If high water levels and/or ponding occurs as a result of transferring water from WCA 3A to WCA 3B, this may result in adverse impacts to tree islands and other natural vegetative communities, thus impacting remaining functional or potential wildlife habitat.

Recommendation: We recommend that the U.S. Army Corps of Engineers (ACOE) and the South Florida Water Management District (SFWMD) initially adopt the following criterion for managing water levels in WCA 3B. If in any year, depths in WCA 3B as measured at the 7-1 gauge for the eastern part and the EDEN 10 gauge for the western part exceed two feet for more than 59 days, extensive monitoring of tree island health will immediately begin. If significant stress to trees is detected, operational steps must be taken to achieve more favorable conditions during the following water year to reduce stress on these key Everglades landscape features. In the longer term, we recommend that the ACOE and the SFWMD work with FWC and others as appropriate through the adaptive management program to develop a regulation schedule that supports the redirected flows while avoiding harm to the tree islands in WCA 3B.

Levee construction

The L-67D levee would be a major new structure in the EWMA and its inclusion seems counterintuitive to moving toward a more natural system. Additionally, by proposing to connect the new L-67D levee to the L-67A levee, Alternative 4R2 would pose a significant impact to recreational fishing access in the L-67C canal and has the potential to cause environmental and habitat impacts associated with construction.

Recommendation: We prefer that the new L-67D levee be constructed as one of the last components to come on line and only if it is shown through operational experience to be necessary. If it is constructed, then we recommend that it be terminated at the L-67C levee so as not to impact this important fishery.

Filling of the Miami Canal and removal of spoil mounds

Public use of the Everglades remains strong. The canal system supports thousands of angler-hours of fishing effort; facilitates further travel into the area promoting hunting, fishing, boating, and wildlife viewing; and provides an economic benefit to Florida and our local communities. Our position during the Restudy was, and continues to be, that we do not support filling canals that provide recreational opportunities unless it can be

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shown to be necessary in order to accomplish hydrological restoration. The CEPP modeling suggested that backfilling south to the S-339 structure provided the most demonstrated benefits; additional benefits from filling from the S-339 structure to Alligator Alley were questionable. Thus, although CEPP proposes to retain 22 of the FWC's highest priority enhanced spoil mounds between the S-339 and Alligator Alley, the use of any spoil material as fill in a recreationally important canal raises both ecological and recreational concerns for the FWC. We do, however, fully support reconstructing tree islands across the footprint of the filled portions of the Miami Canal in locations where they historically were located.

Recommendation: FWC should be included in decisionmaking processes during detailed design to re-examine that backfilling of the Miami Canal only be included as far south as the S-339 structure.

Exotic Species

The projects' plans for detection, monitoring, and treatment/control of exotic species are largely covered in Annex G. While we agree that exotic fish, wildlife, and vegetation can be cause for concern, we contend that there is currently no evidence that exotic fishes in man-made canals pose a threat to ecosystem function. In 2007, the FWC developed a position paper (enclosed) that details this conclusion. Furthermore, in our experience, electrofishing has not been demonstrated to be an effective method of eradication of exotic fishes, particularly those known to be established in the construction locations for the project. While the FWC supports the pre- and post-construction monitoring and early detection and rapid response (EDRR) approach outlined, we do not support the use of electrofishing to attempt to eliminate exotic fishes from construction locations.

Recommendation: We request that Annex G be more value-neutral in addressing the impacts of exotic fishes on canal systems in the Everglades. Further development of the discussion of mechanical control would also be appropriate. Unless restricted to roads or levees, our experience leads us to believe that the kind of mechanical control described is not feasible in the central Everglades. Additionally, we request a clarification of the temporal and geographic context of the statement in G.2.1.3 regarding the dominance of Brazilian pepper in the canopy of small tree islands. Currently, most tree islands in EWMA are treated and in a state of maintenance control.

Sequencing

Sequencing will be a critical factor in achieving success via CEPP. The DPIR/EIS indicates that one of the later actions will be to remove the Old Tamiami Trail. Recent events have shown that water managers consider breaching it to be an important action contributing to a short-term solution to this year's high water levels.

Recommendation: We recommend that the Old Tamiami Trail be removed as early as possible in the implementation of CEPP so it no longer acts as a barrier to water moving south. Additionally, as part of the removal of the old Tamiami Trail regarding the 1,320 foot east-west strip that runs along the entire length of the Tamiami Trail that shares a boundary with Everglades National Park, we recommend an easement be established south of Tamiami Trail to facilitate road modifications, maintenance and water delivery. We further recommend during the removal of the old Tamiami Trail that the associated borrow canal west of L-67 Extension be left in place to serve as a spreader canal for

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incoming flows to promote sheetflow into Everglades National Park. Similarly, as part of this element, a spreader swale should be established south of Tamiami Trail east of the L-67 Extension to improve distribution of flows downstream.

Additional Comments

Biscayne Bay

Although current analysis of model outputs suggest sustained freshwater flow to Biscayne Bay, numerous concerns about real world performance were raised by a variety of stakeholders during plan formulation. We echo these concerns; it would be difficult for FWC to support a project that would decrease freshwater flows to Biscayne Bay. Many of the organisms in the bay, including the pink shrimp, which supports the number one commercial fishery in the bay, thrive in salinity ranges of 20-35ppt. Thus, any decline in freshwater flows to the bay could have negative impacts on ecological conditions in the bay and important recreational and commercial fisheries.

Recreation

The discussion of recreation in Appendix F does not adequately address how CEPP could impact recreational access and opportunity. Repeated, legitimate concerns about impacts to hunting access and/or opportunities were raised by stakeholders during plan development and should be addressed. Given the potential for reduced carrying capacity of deer and other mammals dependent on uplands, the potential for some loss of hunting opportunity is real.

Summary

The interdependencies on which CEPP is predicated are likely to make implementing CEPP challenging. Sequencing in a way that allows CEPP to meet its potential, along with operational flexibility combined with a rigorous and active adaptive management approach will be key to its success. Nevertheless, the fWC supports CEPP as part of the greater south Florida ecosystem restoration effort, and we look forward to participating in refining its performance.

If you or your staff would like to coordinate further on the recommendations contained in this letter, please contact Mr. Scott Sanders at (850) 488-3831 or email him at scott.sanders@myfwc.com and he will be glad to help make the necessary arrangements. Similarly, please engage the FWC through Mr. Sanders when you enter the detailed design phase of project development so that we may continue to support the development of this important project.

Sincerely.

Nick Wiley Executive Director

Nick Wily

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nw/map/bam

Central Evergindes Planning Project Druft PIR-EIS_18044_100113

Enclosures: I agency position paper (canals); I enclosed general comments

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Staff Comments on the Draft Project Implementation Report/Environmental Impact Statement (DPIR/EIS) for the Central Everglades Planning Project (CEPP)

General comment

CEPP is striving to make significant increases in water deliveries to Water Conservation Area (WCA) 3A with limited storage components in the Everglades Agricultural Area or the Lake Belt. Staff is concerned that without sufficient storage capabilities in these areas, CEPP will lead to the continuation of the periodic extreme high water events that have been degrading wildlife habitat in the WCAs for decades.

Section 5

This section separates the comparison of effects among Alternatives 1 through 4 from the comparison of effects between Alternatives 4R and 4R2. The fact that the scale used to depict the stage duration curves for the first set of comparisons is different from the scale used for these graphs in the second set of comparisons makes it very difficult to determine how the tentatively selected plan (Alternative 4R2 or TSP) compares with Alternatives 1 through 4. Presenting the full range of alternatives in one set of stage duration curves for each region in the final PIR/EIS would better document the decision for the finally selected plan.

Table 5.2-1 has to be interpreted carefully and can be unintentionally misleading. It would be easy to think that the changes in water levels described for Alternatives 4R and 4R2 are how they compare to existing conditions, but they are actually compared to the "future without project" (FWO) condition. To understand what the alternatives mean in terms of how different they are from the existing condition, one must first compare FWO against the existing condition and then calculate how the alternatives compare against the existing condition. We recognize that EIS's must compare alternatives to FWO conditions, but, in the interest of transparency, we recommend including how they compare against the existing conditions.

Throughout Section 5, Water Conservation Area 3B is predicted to have increased hydroperiods that would be of benefit to snail kites, but from review of model output (stage duration curves), staff could not find any improvements for WCA 3B. The difference in hydroperiods as shown in Figure 6-8 does not appear to show any improvements. Figure 6-9 indicates only marginal improvements on the east side, and Figure 6-10 shows improvement to WCA 3B in that portion west of the Blue Shanty.

Sections 5.1.6.2 and 5.2.6.5 state that although deer may be impacted by the removal of levees and lower tree islands being inundated in WCA 3B, the remaining portions of CEPP will see no significant effects on mammals. However, this is not true since northern WCA 3A will likely experience increased depths. Increased depths for longer periods of time will likely reduce foraging areas and limit carrying capacity of deer and other mammals dependent on uplands.

Table 5.1-2 and 5.2-1 characterize a drop in water level by 0.05-0.75 feet as a major adverse impact and drop of 0.25-0.50 feet as a moderate impact, respectively. WCA 2B has consistently experienced high water levels for a number of years, so a decrease in water levels in this area should be a benefit for wildlife.

Table 5.1-8 states: "Hunting (deer, hog, rabbit, etc.) could have a major adverse effect in the short term by increased hydration in the very northern WCA 3A areas that have been dryer." The way that the sentence is written implies that hunting will have a major adverse effect on wildlife. We assume that what the DPIR/EIS means is that hunting will be negatively affected by increased hydrology. It also depends on what kind of hunting and what species of wildlife being referenced. Overall, hunting for deer, hog, and rabbit may be adversely impacted by increased depths in northern WCA 3A. This comment also applies to Table 5.2-6. We suggest this be clarified.

In Section 5.1.15.3, Recreation: The first paragraph mentions the Everglades and Francis S. Taylor Wildlife Management Area for the first time in the DPIR/EIS without mentioning where it is in relation to the CEPP footprint. We suggest mentioning it in the project area description and clarifying that it comprises WCAs 2 and 3 (excluding the Reservation of the Miccosukee Tribe of Indians of Florida).

Table 5.2-1 states that there will be moderate to major improvements for WCA 3B, but from the staff was unable to determine the source of this water for the TSP. We also noted that there is no improvement in outflows from WCA 3B. Balancing inflows to WCA 3B with outflows from WCA 3B will be critical for ensuring that deleterious effects from high water levels are not introduced into WCA 3B, which, for the most part, has escaped the fate of a substantial loss of tree islands as has occurred in WCA 3A and in WCA 2.

Section 6

Figure 6-10: The difference in stages between the FWO and the TSP shows a 0.5- to >1.0 increase in water stage during 1995 in northwest WCA3A, which means water depths would have been three feet or greater near the L4 and L5. Although we recognize that the 1995 year is a model simulation as opposed to an actual condition at the time, the water levels in 1995 were much too high, and the TSP would have exacerbated the event.

Table 6-1 addresses the indicators used to measure progress toward meeting interim goals. Item 3.12 refers to the measure for the snail kite as: "Increase the areal extent of suitable foraging for snail kites." What is the basis for the supposition that CEPP provides better habitat conditions for apple snail populations in "most of WCA 3A and in WCA-B and Shark River Slough in ENP"? Was a performance measure employed that specifically addressed this question? Did model performance indicate dry downs every 3-5 years in extensive marsh areas (central and western WCA 3A, southern part of WCA 3A North, southern WCA 3B, and Shark River Slough) where wet prairie habitats are prevalent? Such dry downs are necessary to maintain the integrity of these communities and prevent a transition to slough environments (poor habitat for apple snails). Was the occurrence of extreme high water (>1.3-foot depth) during the apple snail's reproductive season (March-May) less frequent in key wet prairie areas in the TSP compared to the FWO condition? Also, was potential snail kite nesting habitat taken into consideration? The woody species that provide the best nesting substrates for successful nesting are likely to continue to decline as long as the frequency of extreme high water events remain similar to the FWO.

Table 6-3 includes the comment: "Rehydration within previously dry areas of WCA3A, 3B, and ENP would increase the spatial extent of suitable habitat." This statement should include a caveat as to what type of wildlife this increase in habitat would result. In particular, it would increase wildlife habitat for wading birds and snail kites, but will probably result in less habitat for terrestrial wildlife.

Annex G, Invasive and Nuisance Species Management Plan

There are other exotic species not identified in section G.2.1.1 and which would be appropriate to include: the West Indian marsh grass (*Hymenachne amplexicauli*), climbing acacia (*Senna pendula*), wild taro (*Colocasia esculenta*), and Napier grass (*Pennisetum purpureum*).

Section G.2.1.1 states that the non-native plant inventory included Holey Land Wildlife Management Area, Rotenberger Wildlife Management Area, and Southern Glades Wildlife and Environmental Area (note that the last is not technically a wildlife management area). CEPP, however, is primarily focused on Everglades and Francis S. Taylor WMA (EWMA). Did this inventory include the EWMA?

The statement in paragraph G.2.1.2: "In these areas, Australian pine is present in remote mangrove swamps and sawgrass marshes where populations vary from dense stands to widely scattered patches" is technically incorrect. Australian pines do not grow in the marsh, but are typically found on dry locations and follow linear features (including levees and roads).

Section G.3.4 states: "Mechanical control refers to the use of machinery designed to cut, shear, shred, uproot, grind, transport and remove invasive species. Equipment used to complete mechanical control may include but is not limited to heavy equipment such as an excavator or front-end loader (with a root rake, grinding heads or other attachments), cutter boats, dredges and mechanical harvesters (Haller, 2009)." These techniques would not be feasible in the Central Everglades. Most initial efforts in the Central Everglades have focused on manual removal with chainsaw and removal by hand, followed by treatment of the remaining stumps.

Section G.6.9 states: "It is recommended the adjacent lands within 0.5 mile of the canal and levee be surveyed and treated to eliminate close proximity seed sources. This would assist in preventing spread of priority species such as Brazilian pepper." This statement is not very specific on how the area within 0.5 miles will be surveyed and how infestations will be treated. Also, it doesn't mention what the priority species for treatment will be other than Brazilian pepper. What are the other priority species to be targeted? Does it just include plants?

Appendix F, Recreation

In paragraph F.3.6 and in figure F-3, recreational features describe three shelters at three locations, but it is not clear if the plan intends to state that there will be three shelters at each site identified or one at each site.

Table F-5 proposes an earthen crossing near the S339 structure, but does not mention if the current bridge would remain. Please provide clarification on plans to retain or remove the historic bridge at S339.

Staff would like to see a discussion on how CEPP would impact recreational access.

Appendix G, Benefit Model

G.1.2 – Description of Project Performance Measures. In terms of this model's ability to measure ecosystem functions and benefits for CEPP, it is inherently flawed based on the biased subset of Greater Everglades Performance Measures (or parts thereof) selected for inclusion. The Everglades Ridge and Slough Conceptual Ecological Model is referred to as part of the scientific basis for this set of performance measures (PMs). This conceptual model states that, "The depth, distribution and duration of surface flooding in this environment largely determined the vegetation patterns, as well as the distribution, abundance and seasonal movements and reproductive dynamics of all of the aquatic and many of the terrestrial animals in the Everglades." (Ogden 2005). The Everglades Ridge and Slough Conceptual Ecological Model identifies tree islands as one of its key attributes to be used as an indicator of restoration success. Tree islands have proven to be very sensitive to water management practices and approximately half of the tree islands in WCA 3A have been lost or degraded, with repeted high water events being a major contributor to this loss. Yet, every one of the PMs selected (page G-2) evaluate how alternatives perform either by avoiding low water conditions (nine target components) or by improving sheetflow (three target components). The high-water depth target portion of the Extreme High and Low Water Levels in the Greater Everglades Wetlands PM used for evaluating model performance in ridge and slough indicator regions in WCA 3A was omitted from the benefits analysis. Due to the high ecosystem values that we attribute to Everglades plant communities such as tree islands and wet prairies that have been degraded by extreme high water levels, we find the omission of such an important performance measures to be a major hindrance in being able to provide an acceptable analysis of CEPP performance.

Page G-41- Table G-9. The raw performance scores for Percent Period of Record (PPOR) of Inundation do not include all of the indicator regions in WCA 3, making it difficult to judge performance in southern WCA 3A and WCA 3B. However, those scores presented suggest that inundation lengths may be getting too long in northern and central WCA 3A. All of these indicator regions (IRs) have inundations that exceed Natural System Model 4.6.2 predictions by 2 to 5%, and range from 92 to 96% period of record. Only IR 118 had an inundation value that matched NSM 4.6.2 (91%), which likely reflects the diversion of greater quantities of flows into northern WCA 3A with concomitant decrease from WCA 2A through the S-11 structures into the area occupied by IR 118. Of particular concern is the increase in inundation lengths in central WCA 3A (IR 121) from 93% in FWO to 96% POR in the TSP. Such long periods of inundation suggest that there would likely be fewer of the dry downs that are necessary to maintain the wet prairie communities needed by snail kites for suitable foraging habitat.

Page G-55- Normalized Duration Curves for Gage in Blue Shanty Flow-way for Alternatives 1-4. The footprint of the Blue Shanty flow-way would include the Twin Head tree islands located immediately south of the L-67C levee. These islands are swamp forest strands that possess elevations that are only about 1.0 feet or less higher than the adjacent marsh. The stage duration curve indicates that this area would have water depths > 1.0 foot about 60% of the time. However, the TSP proposes water depths > 1.0 foot for approximately 88% of the time. These much longer periods of inundation would very likely result in the loss of swamp hardwood species (dahoon holly, swamp bay, wax myrtle, etc.) from these islands. Their species diversity

would be greatly diminished, and limited to only the most water tolerant tree species, such as Carolina willow.

Adaptive Management

Option: Dig a shallow S-355 B Collector Canal Extension near the southern end of WCA 3B, east of the proposed L-67D levee, to increase flows southward out of this part of WCA 3B. We note that this option would require significant impacts to wetlands and potential nesting and foraging sites for snail kites.

Option: Modify the agricultural canals in the WCA 3B flowway, west of the proposed L-67D levee, to maximize sheetflow and hydroperiod objectives. This option would impact potential nesting sites for wading birds and snail kites. The agricultural canals have been used extensively in the past by wading birds and snail kites as nesting substrate.

Florida Fish and Wildlife Conservation Commission 620 South Meridian Street, Tallahassee, FL 32399

POLICY: POSITION: X GUIDELINE:

TITLE: South Florida Canals Affected by CERP

APPROVAL AUTHORITY: Senior Leadership Team

DATE: September 2007

SUMMARY OF TEXT & PURPOSE FOR THE APG:

There are over 2,600 miles of canals and levees in the South Florida Water Management District system. In addition, there are numerous canals operated by local drainage districts, as well as drainage canals located within the Everglades Agricultural Area. The creation and operation of this extensive network of canals and levees has significantly altered the natural hydrology of South Florida. Some areas of the Everglades have become over-drained, while other areas have become unnaturally impounded. The Central and Southern Florida Comprehensive Review Study (Restudy) was authorized by Congress and developed the framework to restore and preserve the South Florida natural ecosystem.

One of the major components of the Comprehensive Everglades Restoration Plan (CERP) focuses on removing barriers to sheetflow, and could result in the large-scale backfilling of canals. The purpose of this APG is to review our policy regarding canal fisheries in South Florida and the potential impacts of CERP projects on them; develop a position regarding this matter; and to communicate this position to CERP authorities and stakeholders.

Our position during the Restudy was, and continues to be, that we do not support filling canals that provide recreational opportunities unless it can be shown to be necessary in order to accomplish hydrological restoration.

I. FULL TEXT:

Agency Position Regarding South Florida Canals Affected by CERP

Position Statement: The Florida Fish and Wildlife Conservation Commission does not support filling canals that provide recreational opportunities unless it can be shown to be necessary in order to accomplish hydrological restoration. Additionally, it is our position that exotic fishes currently inhabiting the ridge and slough systems of the Everglades do not pose a sufficiently serious threat to native Everglades species to justify filling canals.

A. INTRODUCTION & BACKGROUND

Widespread construction of canals in South Florida began after flooding from hurricanes in 1947 prompted the creation of a massive federal flood control project. The resultant Central

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and Southern Florida Project for Flood Control and Other Purposes, authorized in 1948 created a canal system to reroute and control surface waters. Canals can currently be separated into those occurring in developed or urban areas, and those occurring in natural areas. Water is conveyed primarily to meet the flood control and water supply needs of South Florida, and secondarily to meet environmental goals. There are currently over 2,600 miles of canals and levees in the South Florida Water Management District system.

The creation and operation of this extensive network of canals and levees has significantly altered the natural hydrology of South Florida. Some areas of the Everglades have become over-drained, while other areas have become unnaturally impounded. The Water Resources Development Acts of 1992 and 1996 authorized the U.S. Army Corps of Engineers to review the C&SF Project and develop a plan to restore and preserve the South Florida natural ecosystem. The onset of this process was the Central and Southern Florida Comprehensive Review Study (Restudy). During the development of the Restudy it became apparent that the goal of increased connectivity of the greater Everglades was being viewed synonymously with the complete removal of many miles of canals.

One of the major components of the Comprehensive Everglades Restoration Plan (CERP) is the Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement Project (Decomp), the purpose of which is to restore hydrological functions of the remaining Everglades to historical conditions as defined by the Natural Systems Model. The Decomp project focuses on removing barriers to sheetflow in an attempt to return the natural flow patterns within the area. According to project documents, barriers to sheetflow include canals, levees, roads, drainage ditches, and spoil banks.

All major canals contain fish populations comprised of freshwater and/or marine species. As a result, many of these canals attract recreational anglers and support multi-million dollar sport fisheries. Additionally, canals are inhabited or frequented by alligators, turtles, anhingas, ospreys, wading birds, river otters, and other wildlife important to FWC. Historically, FWC's position did not support filling canals that provided recreational opportunities unless it was shown to be necessary in order to accomplish hydrological restoration.

A multi-division issue team was developed to review our policy regarding canal fisheries in South Florida and the potential impacts of CERP projects on them; develop an agency position regarding this matter; and to communicate this position to CERP authorities and stakeholders. The team identified three main issues commonly used to justify canal removal: 1) canals impede directional sheetflow and connectivity between compartments of the central and southern Everglades; 2) exotic fishes living in these canals pose a serious threat to native species; and 3) canals were not a component of the historical Everglades landscape.

B. IMPLEMENTATION PROCEDURES AND / OR GUIDELINES

Position element 1: The Florida Fish & Wildlife Conservation Commission does not support filling canals that provide recreational opportunities unless it can be shown to be necessary in order to accomplish hydrological restoration.

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The Commission will take a proactive approach to continue to provide technical assistance to CERP planning agencies to ensure that all of the State's wildlife resources are given adequate consideration in the refinement of Decomp and similar hydrological restoration plans. Key components of CERP will provide water-quality treatment, the reestablishment of appropriate seasonal variation in water depth, and the reestablishment of sheetflow as water moves from the northern part of today's Everglades, through the Water Conservation Areas (WCAs) and Everglades National Park, and ultimately to Florida Bay. The Commission supported this approach conceptually when we reviewed the Integrated Feasibility Report and Environmental Impact Statement of the Restudy, and we continue to do so.

One issue FWC presented during our review of the Restudy was the need to justify the necessity for filling recreationally popular fisheries and canals in order to meet CERP goals. We noted that for the most part, the removal of levees was discussed as if it were synonymous with using them to fill in the associated canals, but FWC believes this presumption is premature. The potential for restoring overland flow by removing levees without full-scale backfilling of canals has not been adequately explored. While incorporating the assumptions of levee removal and permanently plugging the downstream end of a canal to halt conveyance, hydrologic and physical models should be designed to show differences in flow for a range of options including no backfilling, partial backfilling, and complete backfilling. The FWC recommends this be included in the alternative evaluation process for projects dealing with canal backfilling issues. Additionally, there is potential to use levee material to create functional tree island habitat similar to that which historically existed, and we have previously requested that this idea be explored.

Position element 2: The Florida Fish & Wildlife Conservation Commission does not support the filling of canals to reduce the abundance of exotic fishes since to do so cannot be socioeconomically or ecologically justified.

The potential for exotic fishes to detrimentally affect native species has been studied by FWC for more than 40 years. As part of these studies, FWC has collected 11 species of illegally introduced exotic fish from the WCAs since 1965; and one, the yellowbelly cichlid (Cichlasoma salvini) has not been collected since 1995. The occurrence of an exotic fish does have an inherent ecological effect in that it alters the energy flow and takes up space in the resource, but current data indicate that such changes can be, and often are, innocuous. Obvious and measurable deleterious effects caused by exotic fishes within the ridge and slough systems of the Everglades have not been documented by FWC, nor are we aware of published studies that have documented such effects. Based on the historical status and relatively minor effects of those non-native fishes that have been documented in South Florida, we do not believe that they represent an obstacle to achieving ecological restoration.

Position element 3: The Florida Fish & Wildlife Conservation Commission does not support the view that canals should be filled because they were not a component of the historical Everglades landscape.

The FWC considers recommendations to backfill canals because "canals were not a part of the pre-European man Everglades landscape" as a value-based judgment. Using this judgment to justify removing canals would disregard the values of at least four generations

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of Floridians (and others) who spend many hours recreating on these canals. Providing quality nature-based recreational opportunities is a major objective of FWC. Given these conflicting values, decisions regarding canal backfilling should be based on value-neutral comprehensive analysis and hard data taken from these systems.

C. APPENDICES:

• Appendix A - South Florida Canals Affected by CERP

APPENDIX A

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Executive Summary and Agency Position



Issue: South Florida Canals Affected by CERP

Issue Team: Sponsor-South Regional Leadership Team; Leader-Joe Walsh (Division of Habitat and Species Conservation); Members-Steve Coughlin (Division of Habitat and Species Conservation), Jon Fury (Division of Freshwater Fisheries Management), Dan Roberts (Fish and Wildlife Research Institute), Paul Shafland (Division of Habitat and Species Conservation), Tim Towles (Division of Habitat and Species Conservation)

EXECUTIVE SUMMARY

Issue: South Florida Canals Affected by CERP

There are currently over 2,600 miles of canals and levees in the South Florida Water Management District system. In addition, there are numerous canals operated by local drainage districts, as well as drainage canals located within the Everglades Agricultural Area. All major canals contain fish populations comprised of freshwater and/or marine species. As a result, many of these canals attract recreational anglers and have developed into popular fisheries.

The purpose of this issue team is to review the Florida Fish and Wildlife Conservation Commission (FWC) policy regarding canal fisheries in South Florida and the potential impacts of the Comprehensive Everglades Restoration Plan (CERP) projects on them; develop a position statement regarding this matter; and to communicate this statement to CERP authorities and our stakeholders. We identified three main issues commonly used to justify canal removal: 1) canals impede directional sheetflow and connectivity between compartments of the central and southern Everglades; 2) exotic fishes living in these canals pose a serious threat to native species; and 3) canals were not a component of the historical Everglades landscape.

Historically, FWC's position does not support filling canals that provide recreational opportunities unless it is shown to be necessary in order to accomplish hydrological restoration, and it is our position that exotic fishes do not pose a sufficiently serious threat to native Everglades species to justify filling canals. Moreover, filling these canals could negatively impact the many native species that currently reside in them.

The necessity of filling canals in order to restore sheetflow has yet to be demonstrated, and until this is demonstrated FWC opposes such actions in favor of other alternatives that do not compromise recreational fisheries (e.g., plugging downstream reaches to halt conveyance, removal of levees to restore sheetflow). Various modifications may be needed for any given canal depending on its orientation to ground topography and desired downstream flow. The FWC recommends that CERP authorities develop model flow vectors for a wide range of canal modifications (including no backfill, partial backfill, and complete backfill) during the alternative selection process in order to help choose the desired alternative.

The potential for exotic fishes to detrimentally affect native species has been studied by FWC for more than 40 years. As part of these studies, FWC has collected 11 species of illegally introduced exotic fish from the Water Conservation Areas (WCAs) since 1965; and one, the yellowbelly cichlid (*Cichlasoma salvini*) has not been collected since 1995. The occurrence of an exotic fish does have an inherent ecological effect in that it alters the energy flow and takes up space in the resource, but current data indicate that such changes can be, and often are, innocuous. Obvious and measurable deleterious effects

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caused by exotic fishes within the ridge and slough systems of the Everglades have not been documented by FWC, nor are we aware of published studies that have documented such effects. Based on the historical status and relatively minor effects of those non-native fishes that have been documented in South Florida, we do not believe that they represent an obstacle to achieving ecological restoration.

Using the reason that canals were not part of the pre-Columbian Everglades landscape to justify their removal is not a compelling argument. Both the historic Everglades and the heavily managed system that we have today have long been used by outdoor enthusiasts for hunting, fishing, boating, and wildlife viewing. These activities have social, economic, and intrinsic values. For example, the canals in the northern and central Everglades provide multi-million dollar fisheries accessible to both Florida residents and non-residents. Incorporation of multiple-use CERP-approved programs involving popular recreational components will increase value and public support for Everglades restoration.

AGENCY POSITION

Issue: South Florida Canals Affected by CERP

INTRODUCTION

The oldest canal in Florida is estimated to have been dug approximately 1,700 years ago. Widespread construction of canals in South Florida began after flooding from hurricanes in 1947 prompted the creation of a massive federal flood control project. The resultant Central and Southern Florida Project for Flood Control and Other Purposes (C&SF Project), authorized in 1948 created a canal system to reroute and control surface waters. The great majority of canals are designed to convey water from more natural, rural areas to man-made urban landscapes and then to other receiving water bodies, either fresh or estuarine/marine.

While it is recognized that all canals were constructed in what were once "natural areas," canals can currently be separated into those occurring in developed or urban areas, and those occurring in natural areas. Water is conveyed primarily to meet the flood control and water supply needs of South Florida, and secondarily to meet environmental goals. There are currently over 2,600 miles of canals and levees in the South Florida Water Management District system. In addition, there are numerous canals operated by local drainage districts, as well as drainage canals located within the Everglades Agricultural Area. All major canals contain fish populations comprised of freshwater and/or marine species. As a result, many of these canals attract recreational anglers and have developed into popular fisheries. Additionally, canals are inhabited or frequented by alligators, turtles, anhingas, ospreys, wading birds, river otters, and other wildlife.

The creation and operation of this extensive network of canals and levees has significantly altered the natural hydrology of South Florida. Some areas of the Everglades have become over-drained, while other areas have become unnaturally impounded. The Water Resources Development Acts (WRDA) of 1992 and 1996 authorized the U.S. Army Corps of Engineers to review the C&SF Project and develop a plan to restore and preserve the South Florida natural ecosystem. The onset of this process was the Central and Southern Florida Comprehensive Review Study (Restudy). During the development of the Restudy it became apparent that the goal of increased connectivity of the greater Everglades was being viewed synonymously with the complete removal of many miles of canals. One of the major components of the Comprehensive Everglades Restoration Plan (CERP) is the Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement Project (Decomp), the purpose of which is to restore hydrological functions of the remaining Everglades to historical conditions as defined by the Natural Systems Model. The Decomp project focuses on removing barriers to sheetflow in an attempt to return the natural flow patterns within the area. According to project documents, barriers to sheetflow include canals, levees, roads, drainage ditches, and spoil banks.

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The purpose of this issue team is to review our policy regarding canal fisheries in South Florida and the potential impacts of CERP projects on them; develop a position statement regarding this matter; and to communicate this statement to CERP authorities and stakeholders. We identified three main issues commonly used to justify canal removal: 1) canals impede directional sheetflow and connectivity between compartments of the central and southern Everglades; 2) exotic fishes living in these canals pose a serious threat to native species; and 3) canals were not a component of the historical Everglades landscape. The following sections explore each issue in more detail.

Canals, Sheetflow, and Connectivity

The CERP aims to restore the ecological functions of the remaining natural areas of the Everglades to a state that more closely resembles that which occurred before it was diked and channelized into the system of Water Conservation Areas (WCAs) that we see today. The CERP is predicated upon the principle that restoration of water quality and hydrology of the Everglades are the critical components needed to achieve the goals of CERP. Key components of the plan will provide water-quality treatment, the reestablishment of appropriate seasonal variation in water depth, and the reestablishment of sheetflow as water moves from the northern part of today's Everglades, through the WCAs and Everglades National Park, and ultimately to Florida Bay. The Florida Fish and Wildlife Conservation Commission (FWC) supported this approach conceptually when we reviewed the Integrated Feasibility Report and Environmental Impact Statement of the Restudy, and we continue to do so.

One issue FWC presented during our review of the Restudy was the need to justify the necessity for filling recreationally popular fisheries and canals in order to meet CERP goals. We noted that for the most part, the removal of levees was discussed as if it were synonymous with using them to fill in the associated canals, but FWC believes this presumption is premature. We also requested that this plan include an analysis of the extent to which these canals must be filled to achieve hydrological targets, and that references to degrading the levees refrain from adding canal backfilling as a means unless it had been shown to be necessary to restore sheetflow. Furthermore, we asked for an opportunity to see modeling of flow vectors for a wide range of canal modifications, from no backfilling, to partial plugs, to complete backfilling.

The economic value of some South Florida canals is considerable. The canals in the WCAs and some urban areas support multi-million dollar sport fisheries. For example, FWC documented that the L-67A Canal supports some of the best catch rates in the state for largemouth bass, and that anglers generated an estimated \$1.6 million in benefits to the economy, most of which was spent locally during the state fiscal year 2005-2006 (figure represents amount spent during the six-month period when fishing is at its peak in terms of public participation, and it is derived using the U.S. Fish and Wildlife Service's National Survey of Fishing, Hunting, and Wildlife-Associated Recreation approach). In

addition, these canals are also popular fishing areas for subsistence anglers. The future of these and other popular canals is therefore of considerable interest to FWC and others.

The CERP project having the greatest potential to remove recreationally popular canals is Decomp. This project proposes to fill the Miami Canal and remove all barriers to sheetflow. These barriers are identified as portions of the L-67A, L-67C, and L-29 canals and levees. While we agree that the levees are barriers to sheetflow, we do not assume that the canals are also barriers. It may be possible to remove a levee, plug the downstream reach of a canal to halt conveyance, and establish sheetflow without interference across the canal. Depending on the orientation of the canal to ground topography and desired downstream flow, various modifications may be needed for any given canal. Additionally, we believe there is potential to use levee material to create functional tree island habitat similar to that which historically existed, and have previously requested that this idea be explored.

Exotic Fish Invasions

More exotic freshwater fishes have been documented in Florida than nearly any other place, and some of these fishes have become very successful in terms of their range extensions and abundance. Today, 34 exotic freshwater fishes have reproducing populations in Florida. Twenty-three of these are considered established (i.e., population unlikely to be eliminated by man or natural causes and from which individuals can be regularly collected), nine are categorized as possibly established (i.e., reproducing species not considered to have achieved the status of permanence), and two have localized populations. In addition to these, 14 exotic species have been eliminated by FWC, University of Florida's Fisheries Department, or by natural causes.

The potential of exotic fishes to detrimentally affect native species has been a major concern to FWC for over 40 years. These concerns are based in the knowledge that exotic fishes alter the natural energy flow through aquatic ecosystems, are a potential source of exotic diseases and parasites, may pose a public safety concern (i.e., piranhas and electric eels), may compete with native species, and their ecological effects are largely unknown. The FWC has dealt with this important environmental issue by developing and maintaining multifaceted programs focused on the prevention of illegal introductions, assessment, and management of exotic fishes throughout the State.

Because the specific effects of newly introduced exotics are largely unknown, prevention of illegal releases is important. Florida statutes require persons possessing exotic fishes to obey FWC rules, and prohibits the introduction of any freshwater fish that is not native to Florida. One of our basic principles for preventing illegal releases of exotic species is to identify and then to restrict or prohibit possession of those exotics species that are considered to be especially harmful. Several FWC rules deal specifically with exotic fishes, such as Rule 68A-23.008 which includes two lists of fishes. The first is a list of "restricted" species such as the grass carp (*Ctenopharyngodon idella*), which can be possessed under certain conditions. The second is a list of "prohibited" species such as

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electric eels, piranhas, and freshwater stingrays. One reason why FWC focuses on preventing exotic fishes from being introduced is that it is currently impractical, if not impossible, to eliminate or geographically restrict these species once they become established.

The long-term objective of FWC is to develop new fish management strategies that either wisely use and/or reduce the abundance of established exotic fishes (those that cannot be practically eliminated). More specifically, the goal of FWC is to eliminate illegally introduced fishes wherever and whenever practical, but when this is impractical, our goal is to identify practical best-use practices for these resources in order to minimize their potential effects and keep our fish communities as exotic-free as is reasonably possible.

Once an exotic fish is known to be reproducing, FWC focuses on assessing the role of the species distribution, life history, environmental limiting factors, and associations with native fishes. The purpose of accumulating science-based field observations and data is to develop management strategies that incorporate these otherwise undesirable but nonetheless present resources while minimizing their potential deleterious effects by taking advantage of any fortuitous beneficial uses that can be identified for them.

Exotic fish have been documented in or near the WCAs since the mid 1960s (Dineen 1965). The first exotic fish to be reported was identified as Aequidens portalegrensis, but is now presumed to be the black acara (Cichlasoma bimaculatum). A total of eight species were collected from this single, one-acre rotenone sample. Black acara made up 17% of the total number and 5% of the total weight of all fish collected. From 1965 to 2006, FWC has collected 11 species of exotic fish (nine of which were illegal introductions) from the WCAs. One of the nine illegally introduced species, yellow belly cichlid (Cichlasoma salvini), has not been collected since 1995. The grass carp (Ctenopharyngodon idella) and butterfly peacock bass (Cichla ocellaris) were both legally introduced by FWC.

Exotic fishes in the WCAs inhabit both marsh and canal habitats, but are more abundant in canals. Trexler et al. (2001) reported that in contrast to wet prairies, canals offer features that appear to favor higher population levels of exotic fishes. Canals provide deep-water refugia during low water periods that are more limited in marsh habitats. Shafland (1995) reported that canals in coastal southeast Florida had warmer than expected winter temperatures, seldom dropping below 17°C. The water-warming effect of the Biscayne Aquifer is likely maximized in these coastal canals due to the easterly flow of this surficial and highly transmissive aquifer. Although FWC is unaware of long-term minimum water temperatures from WCA canals, these canals almost certainly experience minimum annual temperatures lower than those canals located in the coastal areas of southeast Florida. Established exotic fishes in South Florida come from the tropical areas of Central/South America, Southeast Asia, and Africa. As a result, the most significant range-limiting factor for these fishes is their intolerance to low water temperatures.

Canals in WCA-2 and 3 support a higher proportion of exotic fishes than in wet prairies, even though the two habitats are directly connected; however, the abundance of exotic fishes is considerably less than native fishes in both habitats. For example, from 1990 through 1995 exotic species made up 1-11% of the total number (range = 995-12,084 per hectare) of all species collected in canal blocknet samples (Fury et al. 1995). Fish biomass estimates ranged from 167 to 1,048 kg/ha for the same samples, with exotic species contributing 5-20% of the total weight. Between 1990 and 2003, blocknet samples were also conducted in marsh areas located within one mile of the L-67A Canal. The estimated total number of fish collected ranged from 21,536 to 70,914 per hectare. Biomass estimates ranged from a low of 22 kg/ha to a high of 79 kg/ha. Exotic species collected in these samples made up less than 1% of the total number in all years, and 1-15% of the total weight (Fury et al. 1995, and unpublished data). This supports other observations that the exotic fish populations currently inhabiting the WCAs prefer canal habitats over marsh habitats even when the two are directly connected. While exotic fishes are permanent parts of these fish communities, it is erroneous to automatically assume this means they are directly displacing native fishes.

Trexler et al. (2001) reported data from eight studies that used a variety of techniques across many inland habitats. They reported that exotic fishes have not succeeded equally in aquatic habitats in southern Florida, noting they were most successful in solution holes located in the short hydroperiod rockland habitats of the eastern Everglades. More importantly, they also reported that their analyses indicated low densities of exotic fishes in central or northern Everglades wet-prairie communities, and little evidence of biotic effects in this spatially extensive habitat.

In a draft report on evaluating alternatives for raising portions of Tamiami Trail (Everglades National Park 2005), a section speaking to the goal of maintaining a low abundance of exotic aquatic species within all park habitats stated the following:

For the purpose of the Tamiami Trail evaluation, the question to answer is the following: "Will increased sheetflow and connectivity from the north lead to increased spread of non-native fishes into the wetlands of Shark River Slough?" In all parts of the Everglades system (north and south) canals are an unnatural deepwater habitat that tends to harbor and promote the spread of exotic fish. Trexler 2003 and Rehage and Trexler (in prep.) studied the density of non-native and native fishes in marsh with respect to distance from canals in 4 sites north of Shark Slough in ENP, and one site north of the ENP eastern panhandle.

These studies showed that both native and non-native fishes are found at artificially high densities along the canal border, but that these densities drop off very quickly with increasing distance into the marsh. The dominant exotic fish (Mayan ciclid) dropped to undetectable levels at about 50m distance from the canals. These results indicate that those species of exotic fish currently in the deepwater canal system to the north are unlikely to spread into any restored marsh habitats in ENP resulting from increased sheetflow across the Tamiami Trail.

With respect to the spread of exotic fish, a second line of evidence indicates that it is more beneficial for the park to receive water by increasing sheetflow from the north than to receive water via pumping from canals along the eastern boundaries. Because

human development is concentrated to the east of the park, the canal systems to the east have a much higher potential for introducing exotics fish to marsh habitats within the park than the L-67 canals. Long-term monitoring studies carried out by park staff have discovered at least 4 species of exotic fish within the eastern park boundary (Kline 2003). These species were all detected since 1999, and two of them (the jewel ciclid and jaguar ciclid) have spread rapidly throughout the Rocky Glades since first detection. It is worthwhile noting that the long-term monitoring studies included a number of sampling sites toward the northern boundary of the park; however, no exotic species have yet to be detected at the sample sites in that region.

The populations of all fish species in the WCAs, both native and exotic, are dynamic and constantly change due to a variety of natural and anthropomorphic influences. Loftus and Kushlan (1987) reported that a common phenomenon among exotic species is an explosive population increase followed by a rapid decrease, eventually reaching equilibrium with their environment. Drop trap samples near the north border of Florida Bay showed a repetitive 'boom-and-bust' pattern for Mayan cichlid (*Cichlasoma urophthalmus*), with significant decreases following extreme cold events (Trexler et al. 2001).

Fury and Morello (1994) reported a similar phenomenon for the oscar (*Astronotus ocellatus*) population in WCA-2. The oscar was illegally released in the 1950s, and remained in relatively low numbers until the mid 1980s when it exhibited an accelerated population expansion. Six-month long angler surveys were conducted annually in WCA-2 from 1985 to 1990. The oscar harvest peaked at 11,583 in 1986-87, then declined each year until it hit 0 in 1989-90. A cold front in December 1989 resulted in a large die-off of oscar in WCA-2. An identical angler use survey conducted 13 years later in WCA-2 reported a harvest of only 81 oscar (Morello et al. 2003). When the oscar first showed up in "high" numbers in WCA-2, native panfish harvest was 32,000 (angler success rate = 1.90/hr). When oscar harvest peaked (1986-87), so did native panfish harvest (101,000; success rate = 2.79/hr). As the oscar harvest dropped to 0 in 1989-90, panfish harvest dropped to 18,000 but the angler success rate (2.40/hr) remained similar to the previous years. Hence, these dramatic fluctuations in the oscar population did little to affect the abundance of native sport fishes.

Exotic fishes driving local extirpations in southwest Florida has not been documented. Gilbert (1987) pointed out that the natural zoogeography of peninsular Florida is depauperate in fish species richness. The work by Shafland (1996) and others have documented the parade of exotic fishes that have been found in Florida. In southwest Florida (Lee County northward), there are at least twelve established exotics, including approximately six commonly found in lakes, rivers, and canals. It is possible that exotics that become established are able to occupy a vacant niche with sufficient resource partitioning to allow the addition of new species without exclusion of natives (Champeau, FWC, personal communications).

The occurrence of an exotic fish does have an inherent ecological effect in that it alters the energy flow and takes up space in the resource, but current data indicate that such

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changes can be, and often are, innocuous. Obvious and measurable deleterious effects caused by exotic fishes within the ridge and slough systems of the Everglades have not been documented by FWC, nor are we aware of published studies that have documented such effects. Trexler et al. (2001) reported that walking catfish (*Clarias batrachus*) along with black acara and pike killifish (*Belonesox belizanus*) are "over-represented" in solution holes, during the dry season in the Rocky Glades. Their paper also stated that there are microhabitat and seasonal fluctuations in abundance that may yield under- or over-estimates of the relative abundance of introduced fishes. Lachner et al. (1970) predicted that the walking catfish would reduce the entire freshwater community to nothing but more walking catfish. More than 30 years after this dire prediction was published by the Smithsonian Institute, walking catfish remain a relatively minor component of most freshwater fish communities within their range.

Sampling efforts by Trexler and Jordan (1999) and Fury et al. (1995) indicated very low exotic fish densities in wet prairie habitats used by wading birds. Documented effects of exotic fish on native species have been minimal and in some cases they provide a ready food source for native species (e.g., Frederick 1995 found cichlids and pike killifish to constitute 32% of the biomass from regurgitated Great Egret boluses). Moreover, native fish populations in the Everglades continue to thrive in the presence of the exotic fishes living there. In summary, although isolated samples have temporally documented high abundances of exotic freshwater fishes, the larger body of evidence indicates that these species remain a minor component of Everglades fish populations.

Based on the historical status and relatively minor effects of non-native fishes in South Florida, FWC does not believe that non-native fish represent an obstacle to achieving ecological restoration, unless the definition of ecological restoration inherently includes "the absence of any non-native fish species." After more than 40 years of study, FWC has replaced this presupposition with a realization that these fish have "real" but less than catastrophic effects.

Canals and Historic Everglades Landscapes

Even though the oldest documented canal in Florida is approximately 1,700 years old, canals were not a natural part of the pre-European man Everglades landscape. However, using this as justification to backfill canals in the Everglades is not a science-based decision. It is a value-based decision and FWC recognizes that there are conflicting values underlying this topic. Both the historic Everglades and the heavily managed system that we have today have long been used by outdoor enthusiasts for hunting, fishing, boating, and wildlife viewing. These activities have social, economic, and intrinsic values. The mission of FWC is to manage Florida's fish and wildlife resources for their long-term well-being and the benefit of people.

The FWC believes strongly in the value of public use and enjoyment of the resources that we are restoring and protecting. We view the ability and determination of South Florida residents to live close to nature as the primary source of the passion that led to the

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creation of CERP. This may be a national program, but it was South Floridians who requested restoration and they are intricately connected to its success or failure. In addition to being taxpayers, many of our South Florida stakeholders pay, in a very direct manner, for the maintenance of fish and wildlife habitat through recreational hunting and fishing licenses, and commercial permits. It is estimated that all recreational activities including hunting and fishing within the Everglades Wildlife Management Area (i.e., WCA-2 and 3) generate approximately \$31 million in revenues, \$3.6 million in state sales taxes and supports over 700 jobs.

Ecologically, in addition to fish, these canals currently provide habitat utilized by reptiles, amphibians, mammals, and birds. During drought conditions the canals provide a readily available food source for ospreys and eagles, as well as refugia for species such as the alligator.

It was previously mentioned that the canals in the northern and central Everglades are important [socioeconomically] as a recreational fishery. For example, since 1990 FWC has conducted 12 creel surveys on the 26-mile long L-67A Canal in WCA-3. Angler expenditures during the last five surveys have ranged from \$960,000 to over \$1.6 million with a mean of \$1.2 million. It is important to emphasize that this angler expenditure is during a six-month period only. Using the mean value, that works out to \$261/mile/day. The L-67A Canal is only one of several canals within the WCA system. While the Decomp project is currently in the design phase, project documents have identified potentially backfilling 240 miles of canals.

By virtue of saving and restoring both our freshwater and estuarine resources, we also can protect and enhance the recreational uses to which these resources are put. While the intent of the plan is to protect and restore those natural features that define the Everglades, we should not allow ourselves to ignore the potential for compatible multiple uses of CERP project features. Planning for multiple uses can add value to, and support for, these projects.

CONCLUSIONS

During the planning and implementation of CERP, we need to keep in mind the human environment that the original C&SF Project created. The long-term benefits of that project included not only flood control and water supply, but also access to a unique outdoor recreational experience.

Florida has 7,700 lakes and 12,000 miles of rivers and streams. Even so, the canals in the Everglades Wildlife Management Areas are ranked among the top 10 bass fishing locations in the entire state and consistently have the highest catch rates for largemouth bass in the state; higher even than such world renowned largemouth bass fisheries as Lake Okeechobee, Lake Toho or the Stick Marsh.

Unfortunately, the early plans for restoration of the Everglades assumed that all internal canals and their adjacent levees needed to be leveled to ground elevation in order to achieve appropriate overland flow. The FWC's view is that the potential for restoring overland flow by removing levees without full-scale backfilling of canals has not been adequately explored. Alternatives to complete backfilling should be explored to ensure that the valuable canal fisheries are not unnecessarily lost.

While incorporating the assumptions of levee removal and permanently plugging the downstream end of a canal to halt conveyance, hydrologic and physical models should be designed to show differences in flow for a range of options including no backfilling, partial backfilling, and complete backfilling. The FWC recommends this be included in the alternative evaluation process for projects dealing with canal backfilling issues.

The FWC recommends taking a proactive approach to continue to provide technical assistance to CERP planning agencies to ensure that all of the State's wildlife resources are given adequate consideration in the refinement of Decomp and similar hydrological restoration plans.

Prevention of illegal introductions, assessment, and management of exotic fishes are top priorities of FWC; however, we do not concur with the presumption that introduced species are inherently invasive. Data-based assessments should be used to evaluate the ecological effects of exotic fishes, and to determine which ones are truly invasive, especially since there is general professional conscisus that exotic freshwater fishes in South Florida canals have not caused serious ecological effects during the past 50 years that they have been present. Moreover, these fishes make up a minor component of the fish communities in the WCAs, and in southwest Florida freshwater and euryhaline systems. As a result, FWC cannot support the filling of canals and other deep-water habitats simply to reduce the abundance of exotic fishes since to do so cannot be socioeconomically or ecologically justified.

The FWC considers recommendations to backfill canals because "canals were not a part of the pre-European man Everglades landscape" as a value-based judgment. Using this judgment to justify removing canals would disregard the values of at least four generations of Floridians (and others) who spend many hours recreating on these canals. Given these conflicting values, decisions regarding canal backfilling should be based on value-neutral comprehensive analysis and hard data taken from these systems. Continuing to provide quality nature-based recreational opportunities is a major objective of FWC.

Our position during the Restudy was, and continues to be, that we do not support filling canals that provide recreational opportunities unless it can be shown to be necessary in order to accomplish hydrological restoration.

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Florida Department of Transportation

MEMORANDUM

TO: Lauren Milligan, Coordinator, Florida State Clearinghouse

FROM: Aileen Boucle, AICP, Planning and Environmental Management Administrator

District 6 Project Development and Environmental Office

David Bogardus, Senior Environmental Specialist

District 4 Planning and Environmental Management Office

DATE: October 3, 2013

SUBJECT: Department of the Army, Jacksonville District Corps of Engineers -

Draft Integrated Project Implementation Report and Environmental Impact

Statement (PIR/EIS), Central Everglades Planning Project (CEPP).

ICAR SAI # FL201308286704C

The Florida Department of Transportation (FDOT), District 6 offers the following comments on the major elements of the proposed Draft PIR/EIS:

- CEPP Draft Integrated Project Implementation Report, Figure 4-6. This figure outlines the main components of the Tentative Selected Plan (Alternative 4R2). One of the key components that could potentially impact the Tamiami Trail roadway base is raising the L-29 max stages to 9.7 feet. The report and figure do not define the datum. From the Appendixes and Annexes provided, it appears that this elevation will be relative to the National Geodetic Vertical Datum of 1929 (NGVD). The report and figure should specify the datum referenced. In addition, the report does not define the duration that the peak stages will be maintained. As defined in the comment below, the flood duration is critical in determining if the portions of the Tamiami Trail will be required to be raised. The figure also states that the Tamiami Trail western 2.6-mile bridge will be "Others." The report should clarify who are the "Other" entities that will be responsible.
- CEPP Draft Integrated Project Implementation Report, Table 1. This table defines the total project cost for the Tentative Selected Plan (Alternative 4R2) at \$1,748,800,000. From the Appendix B Cost Engineering Appendix (Cost Estimates and Risk Analysis), the SAJ CEPP Cost and Schedule Risk Analysis Table, Risk No. BG-TL-15 (Tamiami Trail Bridges and Roads Raising) is identified as Very Unlikely, Negligible and Low, for Likely hood, Impact and Risk Level, respectively, and it appears that there was no cost was associated with this risk. Does the projected cost include raising portions of the Tamiami Trail? If not, a cost should be associated with raising portions of Tamiami Trail, because raising the L-29 canal elevation to 9.7 ft. NGVD will require raising portions of this roadway as

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described in Annex C – Draft Project Operating Manual, Page C-27, Section 5.3, second paragraph, third sentence.

- Annex A-2: Hydrologic Modeling, Page 83, last paragraph. This paragraph states that Figures 78 through 81 include stage-duration curves for the L-29 Canal. However, there were no stage hydrographs provided for the L-29 as provided for the 3A-3G gauge (Figures 55 through 57), which appears to be located within WCA-3A. It would be helpful to have stage hydrographs provided for the L-29 for an average, a wet and a dry year. This will show the duration of when stages in the canal will be above the existing Tamiami Trail roadway base, which is critical to determine if the durations will require raising the roadway.
- General: It is not clear in the CEPP Draft PIR/EIS documentation what the
 anticipated stages in the area of Tamiami Trail from Structure S-343 to Structure S12A/S-14 are. If the stage in this area is also anticipated to be raised to 9.7 ft.
 NGVD, approximately 2.5 miles of Tamiami Trail in this area will be have to be
 raised for roadway base protection.
- District 6 advises that the L-29 canal stage may be raised to a maximum elevation of 8.5 ft. NGVD in accordance with the operation criteria outlined in Article III.
 Operation Issues contained in the Contract between the United States of America and Florida Department of Transportation for Relocation, Rearrangement, or Alteration of Facilities, Modified Water Deliveries to Everglades National Park Project (Tamiami Trail Modifications), dated September 25, 2008 (attached).

Thank you for providing District 6 with the opportunity to comment. Should you have any questions, please contact Ms. Aileen Boucle at (305) 470-5201.

The following comments are provided by the FDOT's District 4 staff on the Draft PIR/EIS:

- District 4 has several transportation structures within the Central Everglades Planning Area including, but not limited to, I-75 (SR 93), US 27 (SR 25), and US 441 (SR 80/SR15). Proposed increases in water flow need to be evaluated in terms of roadway engineering and safety. The report highlights the need to maintain levels of flood protection for the urban and agricultural areas east of the WCAs and Everglades National Park. However, little discussion, other than Tamiami Trail, is included regarding the potential impacts to current and future transportation structures (roadways, rail and bridges). The District requests further information regarding how CEPP will integrate transportation infrastructure within its planning framework.
- The FDOT is evaluating the feasibility of widening US 27 and developing rail capacity along the corridor, as an alternative to shipping freight along the eastern

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seaboard from the South Florida Seaports to proposed Inland Logistics Centers around Lake Okeechobee and Central Florida. The addition of a rail corridor has the potential to reduce existing rail/highway conflicts along exiting FEC and CSX lines in South Florida by shifting freight traffic to a more rural area, with significantly fewer atgrade crossings. Proposed increases in water flow through the North New River Canal, as well as creating Stormwater Treatment Areas and other water control structures along the US 27 corridor, should be coordinated with the FDOT to work towards mutual regional goals.

 It should be noted that historic agreements exist between the FDOT and State and Federal regulatory agencies regarding recreational access and natural resources/ mitigation along US 27 and I-75. These agreements should be included within the framework and planning of the CEPP.

Please feel free to contact Mr. David Bogardus at (954) 777-4339 if you have any questions.

CONTRACT BETWEEN THE UNITED STATES OF AMERICA AND FLORIDA DEPARTMENT OF TRANSPORTATION FOR RELOCATION, REARRANGEMENT, OR ALTERATION OF FACILITIES MODIFIED WATER DELIVERIES TO EVERGLADES NATIONAL PARK PROJECT (TAMIAMI TRAIL MODIFICATIONS)

THIS CONTRACT, entered into this 25th day of September, 2008, between the UNITED STATES OF AMERICA (hereinafter referred to as the "Government"), represented by the District Chief of Real Estate executing this contract, and Florida Department of Transportation, an agency duly organized and existing under the laws of the State of Florida (hereinafter referred to as "FDOT");

WITNESSETH, that:

WHEREAS, The Government has been authorized, under Act of Congress approved December 31, 1989 (Public Law 101-229, 103 Stat. 1949, 16 U.S.C. 410r-8), "THE EVERGLADES NATIONAL PARK PROTECTION AND EXPANSION ACT OF 1989", as amended (hereinafter referred to as the "Project"), to construct certain modifications to the Central and Southern Florida Project in order to improve water deliveries into the park and shall, to the extent practicable, take steps to restore the natural hydrological conditions within the park;

WHEREAS, FDOT is the holder of ownership rights to the land upon which FDOT has constructed and is currently operating and maintaining certain facilities, consisting of State Road 90 ("Tamiami Trail") and such other appurtenant uses, which will be affected by the construction of the Project by the Government;

WHEREAS, the anticipated affect of the Project on the Tamiami Trail necessitates that the Government construct a substitute FDOT facility consisting of a one mile bridge and roadway mitigation, i.e. raising the remaining roadway as necessary to accommodate an 8.5' design high water ("DHW") in L29 canal;

WHEREAS, it is necessary for the construction, completion, and enjoyment by the Government of said Project that certain title, rights and privileges of FDOT be conveyed or relinquished and that said facilities of FDOT be removed, relocated, reconstructed, or altered; and,

WHEREAS, FDOT is willing to convey or relinquish to the Government certain rights, title, and interests in and to said lands in consideration of the Government's design, permitting and construction of a substitute FDOT facility, including both the one mile bridge and all necessary roadway mitigation to accommodate a DHW of 8.5' in the L29 canal together with the payment of all reasonable and necessary costs FDOT has and may incur as provided in Article II and Article 1(e); and FDOT agrees that said consideration will constitute full, just, and complete compensation for the acquisition by the Government of certain rights and interests of FDOT in said lands and/or right-of-way.

NOW, THEREFORE, in consideration of the faithful performance of each party of the mutual covenants and agreements hereinafter set forth, it is mutually agreed as follows:

ARTICLE I. OBLIGATIONS OF THE OWNER.

- a) FDOT agrees that if both the bridge and the necessary roadway mitigation are actually constructed as set out in the preliminary drawings, estimates, schedules, designs or specifications hereto attached and made a part hereof as **Exhibit "A"**, and as modified and approved by FDOT throughout the period of construction, said substitute FDOT facility, shall constitute an adequate substitute for FDOT's existing facilities for a Design High Water (DHW) elevation of 8.5 feet in the L29 canal.
- b) In order to accomplish the substitution of FDOT's facilities affected by the construction of the Project, FDOT hereby grants to the Government, its agents, and its assigns, without further considerations, rights-of-entry for construction to work on those parcels of real estate in which FDOT has an real estate interest, necessary, in the

opinion of the District Engineer, or his authorized representative, to permit the Government to construct the bridge, raise the remaining roadway, and perform the work needed to accommodate an 8.5 foot design high water level in the L29 Canal. This right of entry specifically includes the right, after acceptance of the new bridge by FDOT and subject to the obligation of the Government to minimize interference with traffic on the Tamiami Trail, to remove portions of the existing Tamiami Trail adjacent to the new bridge, as required for enjoyment by the Government of the easement for channel and flow described below.

- c) Upon completion of the bridge and necessary roadway mitigation, FDOT will grant to the Government, its agents, and its assigns, a Perpetual Channel Easement and a Flowage Easement across its lands as set forth in **Exhibit "B,"** an attachment to this contract, which shall be limited to the area adjacent to the bridge, and otherwise under the substitute facility through existing culverts with the express conveyance right that conveyance through the existing culverts will be always maintained during the authorized life of the Project regardless of any reconfiguration, maintenance, improvement or modification FDOT may make to Tamiami Trail in the future.
- d) FDOT, without additional consideration, shall convey to the Government by good and sufficient instruments, all real estate rights and interests described above, to permit the Government to construct the bridge, raise the remaining roadway, and accommodate an 8.5 foot design high water level in the L29 Canal.
- e) FDOT shall, to the extent practicable, maintain separate cost records of its reimbursable expenses incurred because of, and related directly to, this relocation contract for purposes of reimbursement and other purposes as set forth herein.
- f) Any future reconstruction, modification, operation or maintenance by FDOT of the substitute FDOT facility shall not permanently or unreasonably interfere or impede the flow of water into the Everglades National Park.

g) All subsequent operation, maintenance, repair, replacement and rehabilitation to the substitute facility shall be borne solely by FDOT. For any damages to the substitute facility resulting from increased operational water levels greater than 8.5' in the L29 canal, FDOT may pursue any legal remedies that it may have in law or equity. This Contract does not extend to a second bridge or to operational water levels greater than 8.5'. It shall be the Government's responsibility to design and construct the roadway mitigation and bridge as necessary to facilitate their operational water levels in the L29 canal.

ARTICLE II. OBLIGATIONS OF THE GOVERNMENT.

Subject to the availability of funds, the Government shall:

- a) Provide a FDOT substitute facility as generally provided under **Exhibit "A"**, General Specifications, attached hereto and made a part of this Contract. The lack of funding does not meet the Government's responsibility to undertake both the one mile bridge and the necessary roadway work mitigation as a single obligation to FDOT. The Corps must complete the bridge construction and roadway modifications prior to the raising of the water levels in the L29 Canal. Further, merely providing funds to FDOT for all or part of the construction of the bridge or mitigation roadwork does not meet the obligations of the Government under this Contract.
- b) Work with such other federal agencies on the Highway Easement Deed in order to furnish all lands required to affect the substitute FDOT facility herein described. Subject to the approval of the Secretary of the Army, convey or cause to be conveyed to FDOT, at a minimum, an easement and right-of-way in, on, over, and across all lands not currently owned by FDOT that are required to affect the substitute FDOT facility and for FDOT to operate, maintain, alter, and replace the substitute facility and all appurtenances, including any utilities now or subsequently permitted by FDOT. Any

easement and right-of-way over lands owned by any person other than the United States of America shall be perpetual. Such interests shall be conveyed without any further consideration from FDOT beyond its agreement to accept the substitute facility as full, just, and complete compensation for the acquisition by the Government of certain rights and interests of FDOT, as provided above. The Government shall provide a survey and legal description for all interests in land to be conveyed to FDOT under this agreement. Conveyance of these interests is an essential part of the obligation of the Government to FDOT to furnish the substitute facility and must occur prior to removal of the portions of the existing Tamiami Trail that will be replaced by the new bridge and its approaches.

- c) Solely be responsible for satisfying any outstanding valid claims as required by the Highway Easement Deed.
- d) Solely be responsible for making all determinations of the necessity for archeological and pateontological reconnaissance and salvage within the right-of-way as required by the Highway Easement Deed together with all necessary reconnaissance and salvage.
- e) Prepare or have prepared all signed and sealed design drawings, plans, specifications and as-builts by a Professional Engineer consistent with current FDOT guidance documents and requirements in connection with the work to be performed by or under the direction of the Government in accordance with the preliminary documents set forth in Exhibit "A" attached hereto and submit same to FDOT or its authorized representative for review and approval before any work to which they relate is performed. This right of review and approval shall include all modifications to the designs or criteria set forth in Exhibit "A" including post bid changes and Value Engineering changes recommended by the Government's contractors. FDOT's right of approval which has already commenced shall continue through the entire period of

construction. FDOT will make such approvals in a manner that will not delay the Government construction contract.

- f) Furnish, or have furnished subject to the conditions hereinafter stipulated, all services, labor, material, tools, equipment, permits and licenses necessary and essential to the substitute FDOT facility and/or alteration of the aforesaid facilities, and shall relocate, rearrange or alter such facilities in accordance with FDOT approved drawings, schedules or plan specifications consistent with FDOT guidance documents, manuals and requirements. Provide documentation of materials furnished and work performed consistent with current FDOT standards and requirements. These expenditures are only for the construction costs. All subsequent operation, maintenance, repair, replacement and rehabilitation shall be borne by FDOT and for any damages attributable to the operation of water levels higher than 8.5 feet in the L29 canal, FDOT may pursue any and all remedies it may have in law or equity. FDOT substitute facility shall be constructed through standard Government Procedures.
- g) Throughout the term of construction, the Government shall provide all necessary traffic control and safety personnel and equipment as may be required by FDOT.
- h) Require each of its contractors, before entering upon the lands of FDOT for construction, operating or maintenance functions relative to the Government's Project work, to:
 - (1) Furnish evidence of the following additional types of insurance:
 - (a) Workers' Compensation Insurance: Provide Workers'
 Compensation Insurance in accordance with the laws of the State of
 Florida and in amounts sufficient to secure the benefits of the Florida
 Workers' Compensation Law for all employees. If subletting any of the
 work, ensure that the employees of the subcontractors are covered by
 similar insurance. Ensure that any equipment rental agreements that

include operators who are employees of independent Contractors, sole proprietorships or partners are covered by similar insurance.

- (b) Contractors' Public Liability and Property Damages Liability **Insurance**: Furnish evidence to FDOT that, with respect to the operations performed, regular Contractors' Public Liability Insurance providing for a limit of not less than \$1,000,000 for all damages arising out of bodily injuries to, or death of, one person and, subject to that limit for each person, a total limit of \$5,000,000 for all damages arising out of bodily injuries to, or death of, two or more persons in any one occurrence; and regular Contractors' Property Damage Liability Insurance providing for a limit of not less than \$50,000 for all damages arising out of injury to, or destruction of, property in any one occurrence and, subject to that limit per occurrence, a total (or aggregate) limit of \$100,000 for all damages arising out of injury to, or destruction of, property during the policy period is carried. Cause FDOT to be an additional insured party on the Contractors' Public Liability and Property Damages Liability Insurance policies that insure the Contractor for the described work that it performs under the Contract.
- (c) Contractors' Protective Public Liability and Property Damage
 Liability Insurance: Furnish evidence to FDOT that, with respect to the
 operations performed by subcontractors, regular Contractors' Protective
 Public Liability Insurance providing for a limit of not less than \$1,000,000
 for all damages arising out of bodily injuries to, or death of, one person
 and, subject to that limit for each person, a total limit of \$5,000,000 for all
 damages arising out of bodily injuries to, or death of, two or more persons
 in any one occurrence; and regular Contractors' Protective Property

Damage Liability Insurance providing for a limit of not less than \$50,000 for all damages arising out of injury to, or destruction of, property in any one occurrence and, subject to that limit per occurrence, a total (or aggregate) limit of \$100,000 for all damages arising out of injury to, or destruction of, property during the policy period is carried. Cause FDOT to be an additional insured party on the Contractors' Protective Public Liability and Property Damage Liability Insurance policies that insure the Contractor for the described work that it performs under the Contract.

- (d) Provide those warranties to FDOT for latent defects in the workmanship and/or materials as required by FDOT standard construction specifications and requirements.
- i) The Government shall be solely responsible for performing all tasks and complying with all terms and conditions of all necessary permits related to the construction of the one mile bridge, removal of that portion of Tamiami Trail immediately north of the new bridge and raising the remaining roadway as necessary to accommodate an 8.5 feet DHW in L29 canal. FDOT shall not be liable for any cost related to design, construction or permit compliance.
- j) Not later than the completion of the construction work contemplated herein and subject to the approval of the Secretary of the Army, convey to FDOT, at a minimum, an easement for any additional land acquired by the Government for the right-of-way necessary for the purposes of the substitute FDOT facility and for the operation and maintenance, over and along the right-of-way.
- k) Subject to the availability of funds, reimburse or cause the FDOT to be reimbursed for all of its reasonable and necessary actual costs expended in the development, review and approval of the work constituting the substitute facility. Such costs shall include all items of FDOT expense reasonably chargeable to the relocation of

FDOT facilities from the beginning of the alternatives' review through final acceptance of the substitute facility.

- I) As part of the foregoing, the USACE specifically agrees to modify the typical Government contracting, construction and operation procedures and processes to include the following:
 - (1) The Government will require the contractor to obtain additional quality control and quality assurance personnel and procedures in order to match all currently required Federal Highway Administration guidelines and procedures that are pertinent to the project work. The Contractor will be required to implement these procedures as part of their Quality Control Organization;
 - (2) The FDOT shall have input as part of the review team who will discuss personnel qualifications and experience utilized as part of the additional quality control and quality assurance staff for a project of this scope and magnitude;
 - (3) If it becomes apparent that there is a discrepancy between the Government contract construction specifications and the FDOT standard construction specifications, the Government will use the more stringent specification;
 - (4) The FDOT shall receive all submittals in a reasonable and timely manner in order to review and approve any contract modifications. The FDOT shall respond in a reasonable and timely manner.

ARTICLE III. OPERATION ISSUES.

Implementing Alternative 3.2.2.a in the Limited Reevaluation Report ("LRR") is expected to raise the Maximum Operating Limit in the L29 Canal to 8.5 feet NGVD, one foot above the existing operating limit of 7.5 feet NGVD. FDOT is allowing USACE to use a new standard (adopted in the March 2008 FDOT Flexible Pavement Design

Manual) thereby reducing the required separation (Design Base Highwater Clearance) between the DHW and the bottom of the road base. DHW (also referred to as Base Clearance Water Elevation) is defined as the average October wet season elevation plus the rainfall from a specific design storm event (10-year frequency, with duration (1 hr, 8 hr, or 24 hr) producing the highest stage and drawing down within a specific period). The old standard required either a higher base or a lower DHW. The use of this new standard with its reduced requirements for separation between the base and the DHW makes adherence to the DHW more imperative.

All inflows shall be cut off to the structures that influence this canal once the maximum operating limit of 8.5 feet NGVD is reached and in advance of certain stage and weather events. This one foot increase in the maximum stage elevation, coupled with improved hydraulic conveyance under the bridge, is expected to provide additional meaningful benefits as described in the LRR. In addition no changes (such as passive weirs in the L29 Levee or removal of the L67 Extension Levee without adequate engineering justification) shall be allowed which may cause stages to exceed the Maximum Operating Limit.

The benefits described in the LRR/EA are potential benefits associated with the evaluation of the LRR alternatives based on a single constraint of 8.5 feet in the L29 canal. The constraints that follow are required by FDOT in order to ensure the stability and safety of the highway. Therefore, when these FDOT constraints are applied to the recommended plan, there will be some change of benefits. During the Combined and Structural and Operational Plan (CSOP) alternative planning process, the effects of these constraints on benefits will be thoroughly evaluated. In addition, there is an expectation that field monitoring, based on a reconfiguration of existing monitoring activities, will continue following implementation of the LRR features in conjunction with

the CSOP operating plan. Such monitoring will allow for adaptive management to potentially mitigate any loss of benefits.

Operations of the C&SF system will ultimately depend on the operations of both the MWD and C-111 South Dade projects as defined in the CSOP. The operations of CSOP will have to be adjusted because the alternative recommended by the LRR does not allow stages high enough (i.e., 9.7 feet NGVD as proposed in the 2005 RGRR) to allow uncontrolled flow into the L29 canal. Specifically, the CSOP operations will have to be modified to include an L29 maximum operating limit of 8.5 feet NGVD. Therefore, CSOP is dependent on the constraints set forth by this Contract. These constraints include:

- A. All inflow structures to L29 Canal will be closed and all inflows terminated, allowing the canal to naturally recede under the following scenarios. For the scenarios requiring a quantitative forecast the SFWMD Daily Quality Precipitation Frequency (QPF) will be used. All L29 Canal stage references are as measured at the S-333 Tail Water unless this location is unavailable then S-334 Head Water may be used:
 - 1. Once the stage in the L29 canal reaches a stage of 8.5 feet NGVD, input from all structures that discharge into the canal shall be stopped until the level in L29 canal recedes beneath 8.5 feet NGVD. The operation of the MWD system, including management of inflows into L29 canal, will be determined as part of the CSOP evaluation. The trigger elevation that will allow the recommencement of flows and maintenance of the integrity of the roadway embankment will be determined in a manner consistent with the FDOT or other applicable design criteria and standards in force at the time of the preparation of the LRR.
 - Two or three days (as soon as forecast information is available)
 before any named storm or tropical event is expected to impact the area,
 all inflow shall be stopped.

- 3. Two or three days (as soon as forecast information is available) before an approaching rainfall event that is predicted to drop six inches or more inches of rainfall within a 72-hour period if the L29 canal stage is at or above 7.8 feet NGVD.
- 4. Two or three days (as soon as forecast information is available) that a rainfall event is expected to result in stages that will meaningfully exceed 8.5 feet NGVD. For example, if the forecast is for 2 or more inches of rain and the L29 stage exceeds 8.4 feet NGVD; or if the forecast is for 3 or more inches of rain and the L29 stage exceeds 8.3 feet NGVD; or if the forecast is for 4 or more inches of rain and the L29 stage exceeds 8.2 feet NGVD; or if the forecast is for 5 or more inches of rain and the L29 stage exceeds 8.1 feet NGVD.
- B. The following information is provided to clarify expectations for development of the final operating plan and how operations will be monitored once implemented. The LRR Recommended Plan used 8.5 feet NGVD as the DHW elevation for purposes of establishing the roadway profile and pavement design. This DHW was calculated from a 36-year POR by averaging all October days within the initial CSOP model simulation. The LRR Recommended Plan assumed a 36-year POR average October wet season elevation of 7.89 feet NGVD to establish the 8.5 DHW. While the target stage for the L29 Canal is 8.5 feet, it is understood that the average October wet season elevation is expected to be approximately 7.89 feet, NGVD based on multiple years (36-year simulated POR). Since this elevation is an average, during some individual years the average October elevation may exceed the 7.89 feet stage and other years it would be below 7.89 feet. The average elevation will be dependent on the meteorological conditions of that year. However when considering multiple years the October average should be at or below 7.9 feet NGVD. The final CSOP will be

developed such that the average October elevation does not exceed 7.9 NGVD in the L29 Canal for the model's period of record (1965 through 2000).

These evaluations could also result in the identification of additional criteria that may modify the benefits described in this report. It is the expectation of the participating agencies of the LRR that the subsequent CSOP evaluations will thoroughly analyze the impacts of these modifications and attempt to mitigate any adverse impacts to the level of benefits described in this report.

Agreements with FDOT and other State agencies are contingent on this 36-year POR average October wet season elevation of 7.89 feet NGVD. This elevation was based on modeling performed by the Government during the initial development of the CSOP plan. These model runs assumed sufficient road raising and bridges to allow unconstrained flow into the L29 canal. This average October stage will be verified in the following manner:

- 1. The 7.89 feet NGVD stage elevation is based on a simulated 36-year period of record (POR) modeling data which are the best information currently available. The CSOP team will be required to analyze the 36-year POR modeling average monthly water levels during October and compare the calculated DHW to that defined in this report (7.89 feet, NGVD). If the 36-year POR model simulated average October elevation is above this stage, adjustments to CSOP shall be required operationally or structurally to ensure the design integrity of the roadway embankment and pavement.

 U.S. Army Corps of Engineers ("USACE") will consult with SFWMD and FDOT so that the 36-year POR modeling results in an average October stage at or below the 7.89 feet NGVD.
- Once the Tamiami Trail Modifications are constructed and operational,
 yearly average October water surface elevations will be computed (S333 tailwater) and
 shared with FDOT. After three years of operation, the average of the three years will be

computed and compared to the predicted 36-year POR October average of 7.89 feet stage elevation. If the average October elevation is found to be more than 0.2 feet above this stage (≥ 8.09 feet NGVD), adjustments shall be required operationally or structurally to ensure the design integrity of the roadway embankment and pavement. The condition of the roadway will be evaluated using the annual Florida Department of Transportation Pavement Condition Survey ratings for Crack, Rut and Ride. The Government will consult with SFWMD and FDOT on needed changes and implement them in a timely manner. After each subsequent year of operations, the average October elevation will be recalculated to include all operational years (e.g., after four years of operation, the average October elevation will use the four years of elevation data).

- C. FDOT contemplates executing a Joint Participation Agreement (JPA) in favor of USACE on or about July 1, 2011 in the amount of its deferred maintenance. The present day value of that is \$4.716 million and the funding would be provided prior to 30 September 2011. That contribution to project funding is contingent upon and subject to the following:
 - The availability of funds.
 - State budget authorizations.

In summary it is important to maintain the integrity and safe conditions for Tamiami Trail. In order to accomplish these conditions, certain assumptions were made on the best available data to predict how the stages in L29 Canal would change during the wet season and during specific storm events. Certain contingencies were set in place to minimize impacts to the road base and to reevaluate the original assumptions. Potential benefits were based on the best information to date. As stated earlier, final benefits will be thoroughly evaluated and vetted through operating procedures under CSOP.

ARTICLE IV. SALVAGE.

FDOT, Government and/or their agents shall use such materials, equipment and supplies from the facilities existing as of the date of this contract as are suitable for use in the facilities to be relocated, rearranged, or altered hereunder; the parties shall agree prior to the commencement of any field work as to the materials which cannot be reused. All such unsatisfactory materials shall be removed from their original location by the Government and/or its contractors and shall become the property of the Government and/or its contractors, which shall be responsible for their salvage and/or disposal.

ARTICLE V. BETTERMENTS.

FDOT agrees that the substitute FDOT facility to be accomplished under this contract will provide FDOT with facilities that are functionally equivalent in service and utility as to those now in existence but for a water level up to 8.5' in the L29 canal, instead of the current water elevation in the canal. If FDOT desires any improvement in design, construction, or capacity over and above what is required to provide facilities of equal service and utility, such improvement shall constitute a betterment and will be paid for by FDOT; provided however, that the term "betterment" will not be deemed to include more costly construction or design necessitated solely as a result of the relocation. Required upgrades to the facility to meet current standards shall not be deemed a betterment. The Government shall identify all betterments and notify FDOT in writing of its determination that a proposed change is a betterment before the betterment is constructed.

Notwithstanding the foregoing, the Government will construct as a betterment the necessary features to facilitate future capacity to locate a Florida Power and Light Co. distribution line or lines on the new bridge and its approaches. All funding required to accomplish this betterment will be provided by the South Florida Water Management

District directly to the Government. The construction of this betterment by the Government is not a commitment by FDOT to authorize the installation of Florida Power and Light Co. distribution lines on the substitute facility. Nothing in this agreement requires FDOT to expend funds for the relocation of any utilities from the existing FDOT right-of-way or otherwise onto the substitute facility. Any request or application by Florida Power and Light, or any other person or company, to install, operate, maintain, or relocate any utility on or along the bridge, the remaining substitute facility, or otherwise on FDOT right-of-way must be made and will be evaluated in accordance with the applicable requirements of Florida law and FDOT rules.

In addition, the Government will construct as a betterment the necessary features to relocate communication facilities onto the new bridge and its approaches currently owned by AT&T of Florida. Prior to their corporate merger, the telecommunications companies impacted by this project were known separately and permitted by FDOT as AT&T Corp. and BellSouth Telecommunications, Inc., (also known in some older permits as Southern Bell Telephone & Telegraph Company). Collectively, these companies are now known as AT&T of Florida. All funding required to accomplish this betterment will be provided by the Department of the Interior directly to the Government. The construction of this betterment by the Government is not a commitment by FDOT to authorize the installation of AT&T of Florida communication lines on the substitute facility. Nothing in this agreement requires FDOT to expend funds for the relocation of any utilities from the existing FDOT right-of-way or otherwise onto the substitute facility. Any request or application by AT&T of Florida, or any other person or company, to install, operate, maintain, or relocate any utility on or along the bridge, the remaining substitute facility, or otherwise on FDOT right-of-way must be made and will be evaluated in accordance with the applicable requirements of Florida law and FDOT rules.

ARTICLE VI. OWNERSHIP AND CONDUCT OF THE WORK.

The one mile bridge and roadway mitigation constructed hereunder shall be performed by the Government. Upon completion of a functional portion of the substitute FDOT facility and its final acceptance after inspection by FDOT, the Government will transfer that portion to FDOT for operation and maintenance. Following transfer, FDOT will be responsible for all subsequent operations, maintenance, repair and rehabilitation, as necessary. For any damages attributable to the operation of water levels higher than 8.5 feet in the L29 canal, FDOT may pursue any and all remedies it may have in law or equity.

The Government may award other contracts for additional or other work in connection with the substitute FDOT facility in the same vicinity. FDOT shall conduct operations so as to cooperate fully with any such work being performed by the Government and/or Government contractors and shall carefully fit its work to that provided under other contracts as directed by the District Engineer. FDOT shall not commit or permit any act which may interfere with the performance of any such work by the Government and/or any Government contractor unless approved in advance by the District Engineer.

ARTICLE VII. INTERFERENCE.

a) The parties agree that so long as the substitute FDOT facility is operated or maintained, it shall not be so further altered or modified nor other facilities constructed by FDOT so as to materially interfere with the flow of water into the Everglades National Park without the express written authorization of said Secretary of the Army, his successors and assigns.

- b) Likewise, after the final delivery of the substitute FDOT facility to FDOT by the Government, the Government shall do no act or acts which shall injure, destroy or interfere with said substitute FDOT facility which shall be owned and operated by FDOT.
- c) During the period of construction, the Government, its agents and contractors shall minimize interference with traffic flow on Tamiami Trial. The Government shall require its contractors to submit a Traffic Management Plan to FDOT for their approval and/or modification. The Government shall be solely liable for the costs associated with traffic management during construction.
- d) In the event a Government contractor files a construction lien arising from activities associated with the Project on lands held by FDOT or to be conveyed to FDOT, the Government shall take all steps necessary to satisfy and/or release said lien.

ARTICLE VIII. INSPECTION AND ACCEPTANCE.

- a) Testing and inspection of the work to be performed hereunder by the Government shall be the responsibility of the Government and may be performed by qualified Government employees or a qualified independent testing laboratory approved by FDOT. Any plan for testing or otherwise providing for control of the quality of work to be performed by the Government shall meet with the approval of FDOT.
- b) Upon completion of all work for a functional portion of the substitute facility, the Government will give notice of such to FDOT. Following notice, FDOT will have 90 days in which to inspect the work for final acceptance. If all or any portion of the work is found to be unsatisfactory, FDOT will so notify the Government and the Government will require its contractor to perform appropriate remedial work. Upon completion of the remedial work, the Government will again notify FDOT and FDOT will inspect the work for final acceptance as provided above. When the work is satisfactorily completed, FDOT will provide the Government with notice of final acceptance.

- c) FDOT shall have the right to inspect the work to be performed hereunder by the Government at any time during its progress and to make final inspection upon completion thereof. If FDOT shall determine that the work is not being performed in accordance with the plans, specifications, and schedules which FDOT has previously approved, FDOT shall make its objections known to the Government. It will be the responsibility of the Government to make all needed corrections in the Project to assure conformity with the plans, schedules, and specifications which had previously been approved by FDOT.
- d) After the Government has determined that construction of the substitute FDOT facility or a functional portion of said facility is complete and provides FDOT with written notice of such determination and after FDOT accepts that portion of the substitute FDOT facility in writing, FDOT shall operate, maintain, repair, replace, and rehabilitate the completed substitute FDOT facility, or functional part thereof, except for the conveyance channels, in accordance with applicable Federal and State laws.
- e) All Warranties provided to the Government by contractors or suppliers for the substitute FDOT facility shall also be provided to FDOT or assigned to FDOT by the Government not later than the date FDOT accepts that portion of the substitute facility.

ARTICLE IX. INTERIM CONTROL DURING CONSTRUCTION

Upon commencement of on-site work for any phase of the substitute FDOT facility, the Government shall assume complete responsibility and liability for the operation, maintenance and safety of that phase of the substitute FDOT facility. The

Government's responsibility shall continue until that phase of the substitute FDOT facility is accepted by FDOT in writing.

ARTICLE X. RELEASE.

FDOT agrees, on completion of the work provided herein together with the reimbursements set forth and the conveyance of property contemplated in this Contract, to accept said substitute FDOT facilities and payment of the consideration provided for herein as full and just compensation for any and all damages that have been caused to the facilities altered or relocated hereunder and shall, upon final written acceptance of any functional portion of the substitute FDOT facility, release the Government from any and all causes of actions, suits-at-law or equity or claims or demands, and from any liability of any nature whatsoever FDOT would otherwise be entitled to make for and on account of any damages to said rights-of-way and facilities of FDOT, constructed relocated or altered hereunder. Said release shall not include claims for subsequent operations of the Government Project that might negatively affect the substitute FDOT facility after construction and transfer or any subsequent work undertaken by the Government to accommodate a greater DHW elevation in the L29 canal. In addition, said release shall not include latent defects. Said release shall not include asserted or unasserted claims for misfeasance or nonfeasance during the Government's control of the facility.

ARTICLE XI. COMPLETION.

The parties agree that they will faithfully and expeditiously prosecute their obligations hereunder as soon as practicable after this contract is approved and shall complete the work with diligence to completion. The transfer of the substitute FDOT facility may be accomplished in phases representing functional portions of the Project. Failure to

complete any phase which is initiated by the Government shall be a material breach and shall be completely unacceptable to FDOT and may result in significant damages. Any phase where construction is initiated must be completed within a reasonable time as reflected in the Project schedule in effect when construction of that phase commenced.

ARTICLE XII. CONDEMNATION.

Should it be determined for any reason that the right, title, and interest of FDOT in and to the lands, referred to in Article I hereof, shall be acquired by condemnation or other judicial proceedings, FDOT shall cooperate in the prosecution of the proceedings and this Contract shall, without more, constitute a stipulation which may be filed in the proceedings and be final and conclusive evidence of the adjustments to be made to the facilities herein mentioned.

ARTICLE XIII. DISPUTES.

As a condition precedent to a party bringing any suit for breach of this Contract, that party must first notify the other party in writing of the nature of the purported breach and seek in good faith to resolve the dispute through negotiation. If the parties cannot resolve the dispute through negotiations, they may agree to a mutually acceptable method of non-binding alternative dispute resolution with a qualified third party acceptable to both parties. The parties shall each pay 50% of any costs for the services provided by such a third party as such costs are incurred. The existence of a dispute shall not excuse the parties from performance pursuant to this Contract.

ARTICLE XIV. ENVIRONMENTAL LITIGATION.

a. If the performance of all or any part of the construction is suspended,
 delayed, or interrupted due to an order of a court of competent jurisdiction as a result of

environmental litigation, as defined below, the District Engineer may suspend, delay, or interrupt all or any part of the work for such period of time as he may determine to be appropriate to permit the Government to comply with the Court's Order.

- b. The term "environmental litigation", as used herein, means a lawsuit alleging that the work will have an adverse effect on the environment or that the Government has not duly considered, either substantively or procedurally, the effect of the work on the environment.
- c. Notwithstanding any suspension, delay or interruption of construction pursuant to subparagraph (a) of this article, the Government shall at the Government's sole expense, provide, subject to the availability of funds, whatever materials and perform whatever work is necessary to prevent any adverse effect on the short or long-term operation and safety of FDOT's facilities as a result of such suspension, delay or interruption. In the event of any Project delay after commencement of construction, the Government shall, at its sole expense and subject to the availability of appropriations, implement all modifications to the Traffic Management Plan as coordinated with FDOT.

ARTICLE XV. APPROVAL.

This Contract shall be subject to the written approval of the Chief of Real Estate, Jacksonville District and shall not be binding until so approved.

ARTICLE XVI. NOTICE.

a) Any notice, request, demand, or other communication required or permitted to be given under this Contract shall be deemed to have been duly given if in writing and

either delivered personally, express mail service or mailed by first-class, registered, or certified mail, as follows:

If to the Facility Owner:

Florida Department of Transportation Stephanie C. Kopelousos Secretary 605 Suwannee Street Tallahassee, FL 32399

With a copy to:

Florida Department of Transportation Alexis M. Yarbrough General Counsel 605 Suwannee Street, MS 58 Tallahassee, FL 32399

If to the Government:

District Engineer U.S. Army Corps of Engineers ATTN: Cem S. Goral, CESAJ-OC 701 San Marco Boulevard Jacksonville, Florida 32207

- b) A party may change the address to which such communications are to be directed by giving written notice to the other party in the manner provided in this Article.
- c) Any notice, request, demand, or other communication made pursuant to this

 Article shall be deemed to have been received by the addressee at the earlier of such
 time as it is actually received or seven calendar days after it is mailed.

ARTICLE XVII. OFFICIALS NOT TO BENEFIT.

No member of or delegate to Congress or resident commissioner, shall be admitted to any share or part of this contract, or to any benefit that may arise therefrom,

but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE XVIII. DEFINITIONS AND GENERAL PROVISIONS

For purposes of this Contract:

- a) The term "head of agency" or "Secretary" used herein means the Secretary of the Army; and the term "his duly authorized representative" means the Chief of Engineers, Department of the Army or an individual or board designated by him.
- b) The term "District Engineer" as used herein shall mean the District Commander,
 U.S. Army Corps of Engineers, Jacksonville District.
- c) The term "Project" shall mean those works authorized by The Everglades

 National Park Protection and Expansion Act of 1989, as amended including construction
 of a substitute FDOT facility for Tamiami Trail and structures in Water Conservation Area
 3 providing for the flow of water from Water Conservation Area 3A to Water

 Conservation Area 3B and into Everglades National Park, the construction of a levee,
 seepage canal and pump system for the "East Everglades 8 1/2 square mile residential
 area" adjacent to Levee 31 North; construction of a pump system to maintain water
 levels in L-31Nborrow canal and to return excess seepage water to Shark River Slough
 via the L29 borrow canal; the degrading of Levee 67 extension; relocation of the Tigertail
 Indian Camp and the L-67 pilot test and other tests. All as generally described in a
 General Design Memorandum entitled "Central and Southern Florida Project, for Flood
 Control and Other Purposes, Part 1, Agricultural and Conservation Areas, Supplement
 54, General Design Memorandum and Environmental Impact Statement, Modified Water
 Deliveries to Everglades National Park, Florida" dated June 1992, and approved by
 Headquarters, U.S. Army Corps of Engineers in June 1992.

- d) The term "period of construction" shall mean the time from the advertisement of the first construction contract to the time the Government certifies in writing to the Local Sponsor that construction of the Project is complete. The Government shall furnish to the Local Sponsor copies of the Government's written Notice of Acceptance of completed work furnished to the contractor(s) for all contracts for the Project.
- e) The term "highway" shall mean any highway, thoroughfare, roadway, street, or other public road or way.
- f) The term "substitute FDOT facility" shall mean the construction of a bridge and the increase in elevation of the Tamiami Trail between Structures 333 and Structure 356 for a length of approximately 10.7 miles to compensate for the increase in water elevations in the L29 canal resulting from the Project.
- g) The term "relocations" shall mean the preparation of plans and specifications for, and the accomplishment of all, alterations, modifications, lowering or raising in place, and/or new construction related to, but not limited to, existing: railroads (excluding existing railroad bridges and approaches thereto), highways, and other bridges, pipelines, public utilities (such as municipal water and sanitary sewer lines, telephone lines, and storm drains), aerial utilities, culverts, cemeteries, and other facilities, structures, and improvements determined by the Government to be necessary for the construction, operation and maintenance of the Project.
- h) The term "functional portion of the Project" shall mean a completed portion of the Project as determined by the Government in writing to be suitable for tender to the FDOT to operate and maintain in advance of completion of the entire Project. To be suitable for tender, the Government must determine, after consultation with the FDOT that the completed portion of the Project can function independently and for a useful purpose, although the balance of the Project is not complete.

i) The term "betterment" shall mean the design and construction of a Project feature accomplished on behalf of, or at the request of, the FDOT in accordance with standards which exceed the standards which the Government would otherwise apply for accomplishing the design and construction of the Project. Improvements made to meet current FDOT design standards shall not be considered a betterment.

END OF PAGE

IN WITNESS WHEREOF, the parties hereto have executed this contract as of the day and year first above written.

FLORIDA DEPARTMENT OF TRANSPORTATION

THE UNITED STATES OF AMERICA

BY: Thope

Stephanie C. Kopelousos, Secretary

BY: Show W. Loull

Sharon W. Conklin Chief, Real Estate Division U.S. Army Corps of Engineers

Jacksonville District

ATTEST:

BY: Smille & Partit

SEAL:

ATTEST:

BY: Lawrence P. Wyll

SEAL:

CERTIFICATE OF CORPORATE AUTHORITY

1, Jenniffer L. Parfitt , do hereby certify that I am the Executive Secretary
Stephanie of Florida Department of Transportation; that <u>Kepelousos</u> , who signed this contract on
behalf of said Agency, was then <u>Secretary</u> of said Agency; that said contract
was duly signed for and on behalf of said Agency by authority of its governing body and is
within the scope of its powers.

IN WITNESS WHEREOF, I have hereunto affixed my hand and the seal of the Said Agency this 214 day of September, 2008.

(CORPORATE SEAL)

Secretary) | Executive |
Fibrida Department of Transportation

I hereby certify to the best of my knowledge and belief, based upon my observation and inquiry, Stephanie. Kopelousos, who signed this contract for Florida Department of Transportation, has the authority to execute the same, and is the individual who signs similar contract of behalf of said Agency with the public generally.

Chief, Real Estate Division
U.S. Army Corps of Engineers
Jacksonville District

ATTACHMENTS

- 1) Exhibit A Plans and Specifications; &
- 2) Exhibit B Flowage & Channel Easement Deed



FLORIDA DEPARTMENT Of STATE

RICK SCOTT

KEN DETZNER Secretary of State October 1, 2013

Ms. Lauren P. Milligan Florida Department of Environmental Protection 3900 Commonwealth Boulevard, MS 47 Taliahassee, FL 32399-300

Re: DHR Project File No.: 2013-4293

Corps of Engineers – Draft Integrated Project Implementation Report and Environmental Impact Statement, Central Everglades Pluming Project (CEPP)

Dear Ms. Milligan:

Our office reviewed the draft PIR/EIS for the Central Everglades Planning Project in accordance with the National Environmental Policy Act of 1969 and implementing regulations. We find the document to be consistent with federal regulation regarding the treatment of historic proporties/cultural resources under NEPA.

As noted in Appendix C.2.1.7 of the document, Section 106 consultation regarding the potential effects of CEPP operations on historic properties is ongoing. We will continue to work with our federal, state, and tribal partners as the project progresses to ensure compliance with Section 106, and to minimize impacts to historic properties.

If I can be of any further help, or if you have any questions about this letter, please feel free to contact me at timothy.parsonsi@dos.myflorida.com, or at 850.245.6333 or 800.847.7278.

Sincerely,

Timothy & Parsons, Ph.D., RPA Compliance Review Supervisor

and Deputy State Historic Preservation Officer

Pc. Eric P. Summa

Chief, Environmental Branch Jacksonville District Corps of Engineers

P.O. Box 4970

Jacksonville, FL 32232-0019



DIVISION OF HISTORICAL RESOURCES

R. A. Gray Building • 500 South Bronough Street • Tallahassee, Florida 32399-0250

Telephone: 850.245.6300 • www.fliteritage.com

Commemorating 500 years of Florida history www.vivaflorida.org

C.3-1022



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FLORIDA DEPARTMENT OF STATE

RICK SCOTT Governor KEN DETZNER Secretary of State

October 1, 2013

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If I can be of any further help, or if you have any questions about this letter, please feel free to contact me at timothy.parsons@dos.myflorida.com, or at 850.245.6333 or 800.847.7278.

Sincerely

Timothy & Parsons, Ph.D., RPA Compliance Review Supervisor

and Deputy State Historic Preservation Officer

Pc.

Eric P. Summa Chief, Environmental Branch Jacksonville District Corps of Engineers

P.O. Box 4970

Jacksonville, FL 32232-0019



DIVISION OF HISTORICAL RESOURCES

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C.3-1024





Subject:

[EXTERNAL] The Draft Integrated Project Implementation Report (PIR) and Environmental Impact Statement (EIS) for the Central Everglades Planning Project (CEPP)

Date:

Tuesday, October 15, 2013 5:51:57 PM

Please accept this email as formal comments regarding the Draft Integrated Project Implementation Report (PIR) and Environmental Impact Statement (EIS) for the Central Everglades Planning Project (CEPP) on behalf of the Lee County Division of Natural Resources.

General Comments

First, Lee County applauds the efforts of the U.S. Army Corps ("Corps") leadership and its staff and the South Florida Water Management District ("SFWMD") in its effort to expedite the planning phase of CEPP under the Corps' national pilot program. Given the numerous agencies and stakeholders involved and the sheer magnitude of this project, to arrive at a PIR in less than two years is remarkable. Secondly, Lee County wishes to express its continued support of the goals and objectives of CEPP to provide treated water to the Everglades National Park ("ENP") by capturing and redirecting south approximately 210,000 acre-feet of water from of Lake Okeechobee. This translates into an estimated reduction of high volume flows (>2,800 cfs) to the Caloosahatchee River and Estuary ("CRE") from 81 to 70 for the period of record. While these targets are long terms goals and only represent a fraction of the reductions necessary to alleviate the CRE, we can use the data and information produced from the PIR/EIS process in support of short term strategies to relieve the CRE from the devastating Lake Okeechobee releases that we felt this year.

Caloosahatchee River and Estuary

As you are aware, estuaries such as the CRE rely on a balance of fresh and salt water conditions for survival of seagrasses and oysters. Unfortunately, the CRE endures adverse impacts at both ends of the spectrum. Specifically, due to extensive historical modifications to its watershed, the CRE receives the lion's share of adversity in both dry times and wet times from the Corps' Lake Okeechobee Regulation Schedule ("LORS 08"). In wet times, as we are experiencing recently, the Caloosahatchee River is the largest and most utilized discharge route. Essentially, by "managing" the system, the watershed of the CRE is expanded to include Lake Okeechobee and the Kissimmee River, more than double its natural size. During these times, the CRE and the near shore of the Gulf of Mexico are "blown out" with brown, nutrient laden water. Then, in dry times, when minimal base flows are needed for freshwater grasses, the CRE is often cutoff 100% – zero water releases. In fact, there are instances when the CRE is essentially severed at Ortona Lock so that all flows east return to Lake Okeechobee for water supply interests. Granted, estuaries are resilient to natural flood and drought conditions and often bounce back to productivity. Yet, when subject to numerous "extreme" events for extensive durations, year to year, meaningful recovery is unlikely.

Caloosahatchee River and Estuary - Southwest Florida's Economic Engine

Dozens of studies and plans have documented the harmful environmental damage to the CRE. However, the same level of scrutiny has not been applied to the corresponding economic damage to Southwest Florida, and its coastal communities. Now, local governments, business leaders, hotel associations, real estate groups and other stakeholders are partnering together in Southwest Florida to quantify the economic value and impact that is at stake. Here are a few facts that demonstrate the value of the natural resources in Southwest Florida (Collier/Lee Counties):

- \$4.3 billion in economic activity from tourism; Creating 85,000 jobs
- \$400 million in bed tax, sales tax, and local tax revenue
- \$147 billion in real estate value
- \$1.9 billion in property tax revenue

Simply put, impacts to the CRE directly translate into compounding impacts to our economy and quality of life. Selection of alternatives must address economics of CRE. Although any reduction of harmful releases can demonstrate a net benefit, the on-going impacts will continue until they can be reduced to a meaningful level.

Caloosahatchee River (C-43) West Basin Storage Reservoir Project

The C-43 Project is critical to the overall goals of CEPP and CERP. The C-43 Project is identified as one of the structural and operation assumptions in the future without comparisons. Flows less than 450 cubic feet per second (cfs) in the CRE are considered harmful since these flow levels allow salt water to intrude, raising salinity above the tolerance limits for communities of submerged aquatic plants in the upper estuary. The C-43 Reservoir will contribute to the restoration of ecosystem function in the CRE by maintaining a desirable minimum flow of freshwater to the estuary during the dry season. The importance of the C-43 Project is demonstrated by the Project Assurances Analysis below.

Project Assurances - Identification of Water for the Natural System

The low flow criteria for the Caloosahatchee Estuary is an average monthly flow of less than 450 cfs. In the Caloosahatchee Estuary, the number of months the low flow criteria is not met is similar in the with-project and without-project conditions. The estuary low flow criteria are not met for 23 months out the 41-year period of simulation (492 total months) in the with-project and 27 months in the without-project. Comparisons to the existing condition baselines show significant improvement in low flow performance with the with-project. Both the 2012EC and ECB show 116 months when average monthly flows are less than 450 cfs, compared to 23 months in the with-project. Neither of the existing condition baselines benefit from the inclusion of the C-43 Project which is included in the future without assumptions.

Lake Okeechobee Herbert Hoover Dike Repairs

Current approved Herbert Hoover Dike ("HHD") remediation measures consist of cutoff wall in Reach 1: cutoff wall task orders 1 through 9 are scheduled for completion in 2013, and 32 culvert replacements or removal around the lake are scheduled for completion in 2018. The Planned remediation measures consist of cutoff wall and/or a seepage management system in Reaches 2 and 3. These actions are scheduled for completion in 2022. The comprehensive potential failure mode analysis and risk assessment is being performed and will be included in the ongoing Dam Safety Modification Report (DSMR). This report is scheduled for completion/approval in 2014. Following the conclusion of this report, there needs to be consideration of incremental increases in the Lake's operating levels. Increases in operational levels can give the Corps more storage in wet times and can lead to additional water made available for the CRE during dry times.

Operations - Adaptive Management

As the CEPP proceeds and data from individual project sequencing is continued to be gathered, this data is expected to feed back into the CEPP adaptive management plan. Integration of adaptive management/operations/monitoring into the CEPP will help provide reasonable assurance associated with water quality issues and uncertainties. Adaptive management must be applied iteratively throughout the sequence phasing of the CEPP to seek avenues for additional capacity to store, treat and move water south to the Everglades. Is the plan adaptive enough to incorporate future expansion or phases should lands become available?

The Corps District Commander has the authority when requested by the non-Federal sponsor to approve deviations from normal operating criteria. These are typically approved in emergency situations. Given the severe impacts from the Lake Okeechobee releases this summer, many believe emergency type actions were warranted to move more water south through the WCA 3 into ENP. Recently, the SFWMD took several steps to move more water south into ENP, including cutting a section of Tamiami Trail and clearing vegetation. Were these action granted under a similar deviation? The Corps must use the data and information gathered through the PIR/EIS in order to develop operational flexibility and contingency plans for moving more water south during extended wet times and during major storms. These events must be viewed in a "force majeure" type situation and the State must be held harmless from water quality violations. Is the volume of flows diverted from the estuaries south based on STA capabilities or hydraulic restriction? What will be the built hydraulic capacity south from Lake Okeechobee to ENP?

Sequencing of CEPP and CERP

The unconstrained timeline for the recommended plan is approximately 14 years. However, dependencies on other projects will affect recommended plan implementation. Considering the cost of the recommended plan (\$1.8B), the need for Congressional authorization and appropriation of funding, it is likely that full implementation of the recommended plan will extend over two or more decades providing incremental hydrologic and environmental benefits.

Many factors influence implementation of the CERP Program of projects. In addition to the kind of project dependency considerations, other factors that influence implementation include funding

availability, cost-share balance between the Federal and Non-federal sponsor, as well as the integration of projects that are to be constructed by other agencies. The PIR states that Corps and the SFWMD will "undertake integration of the CEPP recommended plan and the other CERP projects awaiting authorization into the CERP programs' integrated delivery schedule through a robust public process once these projects have been authorized." When will this occur? Additionally, given the structural and operational assumptions in the modeling, project assurance and savings clause analysis, is it possible for CEPP to precede projects assumed complete and operational like the C-43 Project?

Conclusion

We realize this project along with the remaining phases of CERP (incl C43, C-111) and interim short term storage strategies may be the totality of efforts for the benefit of the CRE for decades. We are hopeful you will be able to address our concerns stated above.

Thank you for giving us the opportunity to review and comment.

Roland Ottolini, PE

Director

Lee County Division of Natural Resources

Please note: Florida has a very broad public records law. Most written communications to or from County Employees and officials regarding County business are public records available to the public and media upon request. Your email communication may be subject to public disclosure.

Under Florida law, email addresses are public records. If you do not want your email address released in response to a public records request, do not send electronic mail to this entity. Instead, contact this office by phone or in writing.



MARTIN COUNTY

BOARD OF COUNTY COMMISSIONERS

2401 S.E. MONTEREY ROAD • STUART, FL 34996

Telephone: 772-463-3263 Fax: 772-288-5955 Email: ddrum@martin.fl.us

DOUG SMITH Commissioner, District 1

ED FIELDING

ANNE SCOTT Commissioner, District 3

SARAH HEARD Commissioner, District 4

JOHN HADDOX Commissioner District 5

TARYN KRYZDA, CPM County Administrator

MICHAEL D. DURHAM County Attorney October 9, 2013

Dr. Gretchen S. Ehlinger Planning and Policy Division Jacksonville District, US Army Corps of Engineers 701 San Marco Blvd. Jacksonville, FL 32207

SUBJECT: Martin County Comments on the Central Everglades Planning

Project Draft Project Implementation Report and Environmental

Impact Statement

The Martin County Board of County Commissioners has long advocated for the completion of the Indian River Lagoon-South Project (IRL-S), authorized by Congress in 2007. The first component of the project, the C-44 Reservoir and STA, is currently under construction. We are proud partners with the U.S. Army Corps of Engineers and the South Florida Water Management District in the completion of this vital restoration project. Our citizens voluntarily taxed themselves, generating \$75 million dollars, towards the implementation of this project, acquiring 45,000 acres of land. This unique and substantial partnership reflects the importance of Everglades restoration to the people of Martin County.

Martin County continues to voice our support of the Central Everglades Planning Project. We recognize and appreciate the 23% reduction in the highest volumes of freshwater flows from Lake Okeechobee into the St. Lucie Estuary. We also stress, as you noted in the Project Implementation Report (PIR), and in the numerous PIR team meetings that occurred throughout this process, that "additional actions are needed to further reduce harmful discharges of freshwater from Lake Okeechobee to the St. Lucie and Caloosahatchee estuaries." We support CEPP as a one of many efforts to reduce freshwater inflows to the St. Lucie. Moving forward, a critical component of the restoration discussion is the need to complete the remaining components of IRL-S beyond the C-44 Reservoir and STA, and to establish a minimum of 1 million acre-feet of new storage capacity north and south of Lake Okeechobee to meaningfully reduce the freshwater discharges to the St. Lucie from the Lake.

Specific to the PIR, Martin County would like to see improved descriptions, both in the narrative and graphically, of the project benefits to the estuary associated with various project efforts. Specifically, on your graph that shows the number of times the mean monthly flows are greater than 2000 cfs to the SLE, there is a 20 "high discharge" event improvement for basin flows with IRL-S in place, and a 4 event improvement for Lake flows with IRL-South in place.

TELEPHONE 772-288-5400

WEB ADDRESS http://www.martin.fl.us

eng2014L13_2.doex

With CEPP in place, there is a 10 "high discharge" event improvement for basin flows (compared to 20 for IRL-S), and a 5 event improvement for Lake flows (compared to 4 for IRL-S). This information is straight from the generalized graphs in the PIR, however those graphs do not provide relevant detail regarding to which projects those benefits are attributed.

In order to make those benefits clear and transparent so we can better explain and advocate to our Congressional members the merits of both the IRL-S and CEPP, we ask that greater explanation be provided in the PIR. Specifically, Martin County respectfully requests that the ACOE edit the graphs to include the greater detail on benefits, as well as add language to the PIR, particularly in the Executive Summary, that details all of the projects that were assumed to be completed in order for the CEPP benefits to be fully realized (e.g. Modified Water Deliveries, Tamiami Trail Next Steps, C-11 Impoundment, Restoration Strategies, C-43 Reservoir, and the IRL-S projects), and how system-wide benefits are attributed to each of those projects in the context of the CEPP benefits. This type of detail will assist all of your stakeholders in understanding what CEPP entails, and the benefits that each of the related projects brings to the greater Everglades ecosystem, including the estuaries.

We appreciate and understand the benefits that CEPP brings in reducing harmful freshwater discharges from the Lake to the estuaries. We offer our assistance to your team now in addressing our comments to provide more information that can be readily understood by the public, elected officials, or anyone who is not immersed day-to-day in the federal project process, regarding what CEPP brings in the way of improved conditions compared with other relevant restoration efforts. Thank you.

Sincerely,

Commissioner Sarah Heard, Chair

Sain Hear

Martin County Board of County Commissioners

SH/ejm

cc: Martin County Board of County Commissioners

LTC Thomas M. Greco, Deputy District Commander, Army Corps of Engineers Ernie Barnett, Assistant Executive Director,

Everglades and Water Resources, South Florida Water Management District Deborah Drum, Ecosystem Restoration & Management Manager, Martin County



Department of Regulatory and Economic Resources

Environmental Resources Management 701 NW 1st Court, 4th Floor Miami, Florida 33136-3912 T 305-372-6754 F 305-372-6759

miamidade.gov

October 9, 2013

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

RE: Draft Integrated Project Implementation Report (PIR) and Environmental Impact Statement (EIS) for the Central Everglades Planning Project (CEPP)

Dear Dr. Ehlinger:

As a county of more than two million people uniquely situated among two National Parks, a National Marine Sanctuary, aquatic preserves, one of the world's most transmissive aquifers, and globally imperiled natural systems, Miami-Dade has a demonstrated commitment to environmental restoration, water quality, wellfield and flood protection, conservation land acquisition, and sustainability. Miami-Dade County has supported the Central Everglades Planning Project (CEPP) process, because we understand that improvements in the heart of the central Everglades are necessary to achieve ecological restoration benefits in the Water Conservation Areas (WCAs), Everglades National Park (ENP), and estuaries. Additional freshwater flows also offer the potential to maintain, or even improve in some circumstances, water available for human water supply needs. CEPP has also provided the first meaningful opportunity to integrate seepage management features with increased flows to ENP. Increased stages in eastern portions of the WCA and ENP and in certain canals require concurrent implementation of seepage management to assure that flood protection level of service to the east is maintained at levels that existed at the time CERP was authorized by Congress. These considerations, of water supply for both human needs and for natural systems, as well as flood protection, are generally referred to as "Savings Clause" requirements, a reference to language in WRDA 2000.

The USACE and SFWMD staff is to be commended for their diligent efforts to complete CEPP, which represents the most comprehensive Everglades restoration project plan to date, in accordance with an ambitious timeline. Particularly deserving of commendation is the work of the modeling team, which has provided superior systemwide model tools and output, compared to previous CERP and non-CERP restoration project efforts. Modeling evaluations suggest that ecological benefits will be provided by CEPP components that provide for improved water quality treatment north of the Water Conservation Areas, and increased flows through WCA3A to Everglades National Park and Florida Bay. These improvements are critical and should be initiated as soon as possible to reverse continued decline of natural systems and begin incremental progress toward restoration goals. However, systemwide modeling tools have also suggested through multiple lines of evidence that over some periods of dry conditions, flows to portions of the southeast coast, including wellfield protection areas, may be reduced compared to simulated baseline conditions.

Miami-Dade wellfield protection strategies and regulatory approvals depend upon ability to maintain canal and groundwater elevation to prevent saltwater intrusion in vulnerable coastal areas and also to reduce the potential for impacts of contaminants that could arise from urban areas or surface water interactions. Similarly, modeling shows the possibility of increased groundwater stages in some localized areas during wet

conditions, which may represent an increased risk of flooding. Miami-Dade identified these specific concerns during CEPP scoping, and have consistently maintained through the planning process that seepage management components and system operations must also maintain both quality and quantity of water reaching wellfields and the Biscayne Bay estuary.

As active members of CEPP technical teams, Miami-Dade staff is aware that refinements of the selected CEPP Alternative 4 and modeling assumptions were made to improve performance with respect to Savings Clause issues of water supply and flood protection. However, the Draft Project Implementation Report (PIR) also states that insufficient engineering information is available to adequately evaluate or design key structural elements and operation of Alternative 4R2, particularly those associated with seepage management. Further, the systemwide model tools available do not have adequate resolution or capability of evaluating sub-regional scale flood risk, water quantity and quality concerns. The analysis and conclusions are also based upon compounded assumptions about which CERP and non-CERP projects may be in place in the future, but do not address sequenced or partial implementation of CEPP and other projects in South Florida. There has also been a difference of opinion about the selection of a baseline for comparison for Savings Clause analysis. Therefore, although Miami-Dade generally supports the objectives and general approach of CEPP, and the expected benefits it promises for water quality and deliveries to the central Everglades, we do not concur at this time with conclusions in the Draft PIR that Savings Clause requirements have been met.

More detailed comments regarding the County's concerns and suggestions for revisions to the Draft PIR, all of which relate to Savings Clause considerations, are provided as an attachment to this correspondence.

Miami-Dade County remains committed to participating with agency partners and stakeholders to assure the success of CEPP, CERP and ecosystem restoration overall.

For any questions or further discussion on the County's technical comments please contact Mr. Lee N. Hefty, Director of Environmental Resources Management for the Miami-Dade County Department of Regulatory and Economic Resources at 305-372-6754.

Jack Osterholt

Singerely

Deputy Mayor/Director

Department of Regulatory and Economic Resources

Miami-Dade County offers the following comments to provide more detailed documentation of our concerns and suggestions for revisions of the Draft PIR, all of which relate to Savings Clause considerations:

Modeling of Water for Future Water Supply Demand

Annex B, Annex D and other sections of the report refer to late modeling efforts to optimize and identify potential additional water to help meet increased future water supply demand, in average annual withdrawals, in the LECSA. The report cites this modeling outcome as a demonstration that Savings Clause and Assurance requirements are met. Miami-Dade County advised during the planning process that it did not expect CEPP to provide additional water for future demand, since it was understood that CEPP will only partially fulfill total restoration goals envisioned by CERP. Although it is encouraging that benefits from CEPP and system operations may indeed provide more water for water supply without reducing benefits to natural systems, this theoretical water-made-available does not help to address specific Savings Clause concerns that Miami-Dade has repeatedly described. Miami-Dade's interest in water supply Savings Clause and Assurances has focused upon maintaining groundwater and surface flows in each wellfield area, particularly during dry season, drought periods, and in view of rising sea levels so that water quantity and quality remain equivalent to the condition at the time of adoption of WRDA 2000. The modest amount of average annual withdrawal identified by modeling for Miami-Dade is associated with only one wellfield area, and the analysis did not address water quality or availability during dry conditions, when Savings Clause considerations are of greatest concern.

Seepage Barrier Uncertainty

Flood risk in urban and agriculture lands is primarily a wet season/year concern, whereas wellfield recharge, downstream water quality, saltwater intrusion, and hypersalinity in Biscayne Bay are primarily dry season or drought concerns. Water management strategies must be integrated and flexible enough at regional and local scales to address the full range of extreme Miami-Dade has generally advocated use of operable infrastructure wet and dry conditions. such a pumps, detention areas, and step down-systems for water delivery and seepage An operable system, with performance that can be adjusted in extreme conditions, is more compatible with adaptive management goals of CERP. The seepage barrier wall that is part of CEPP Alt4R2 will not be operable. There are remaining uncertainties about its overall effectiveness in maintaining desired stages in marshes of ENP while maintaining flood protection and canal stages to the east without holding too much groundwater back during dry conditions. "Appendix A - Engineering" states that existing hydrologic data is not adequate for assessing performance or design of the proposed barrier or its configuration, although this concern is not consistently reflected in other sections of the PIR. At this time, though a pilot barrier wall has been installed by rockmining interests in Miami-Dade, sufficient data has not been available to evaluate its specific effectiveness in relation to all CEPP objectives and "Section 6.10.2.1 - L-31 Seepage Barrier Demonstration Project" acknowledges uncertainty about this feature, largely from the perspective of preventing loss of water from the marsh, and does not address potential concerns for water supply or flows to Biscayne Bay or Savings Clause implications at all. The seepage barrier wall is one of the CEPP features with the greatest uncertainty regarding its performance, and also a feature that is associated with relatively great risk related to flood protection, water supply, and ecological benefits within and outside ENP. The dependence of CEPP seepage control on this feature makes Savings Clause conclusions inherently uncertain as well, regardless of what baseline condition is utilized in models. This uncertainty should be acknowledged clearly and consistently in all relevant sections of the draft PIR, and a more coordinated approach to refined modeling, design, assessment and adaptive response strategies for seepage control features must be emphasized in the AM plan.

Performance During Extreme Wet and Dry Conditions

As noted above, it is important to be able to evaluate how effectively CEPP compares to performance of the existing system during periods where risk of damaging high or low water levels and flows could occur. Performance metrics used in Savings Clause evaluation and assessment therefore should be based upon seasonal and extreme wet or drought conditions, whether related to flood, water supply for human uses, or water supply for fish and wildlife. Even though the probability of drought or extreme wet conditions may be relatively low, the ecological or human and economic costs of flood, saltwater intrusion, or hypersalinity of such an occurrence are significant, or even devastating, and should not be discounted. Comparisons of annual average flow or long-term temporal averages of flow or stage cannot adequately address water supply and flood considerations during the evaluation and design process, or during assessment when project components are being implemented. Additional graphic analysis of wet and dry years and regional analysis of flood-prone and wellfield areas should be included consistently in Annex B, D, and other relevant sections of the report.

Incremental Analysis of Savings Clause and Assurances

Evaluations of CEPP benefits and constraints are based upon assumptions of full project completion and a systemwide operating plan that incorporates an array of CERP and non-CERP projects. It is noted in "Section 6.1.3 Project Operations" of the Main Report that the operating plan will evolve as components are constructed or begin operation. "Annex C - Project Operating Manual Section 21" states that "At this time, interim operations during construction cannot be determined." "Section 6.8.7 Incremental Analysis During Plan Implementation" states in a cursory fashion that Savings Clause and Project Assurances will also have to be repeated for each phase of CEPP. This is a highly critical issue, and should be moved to a higher level of emphasis, and included in the uncertainty section of the Main Report, as well as thoroughly acknowledged and addressed in Annex B and Annex C. Because it is not possible to determine how the CEPP project will be funded and over what timeline, or if it actually will be completed as assumed, this adds significant uncertainty to the Saving Clause analysis. Even if it is accepted that a systemwide evaluation supports a conclusion that Savings Clause requirements are met, regardless of what baseline is used for a comparison, this is a hypothetical modeling exercise that does not reflect the actual construction and operating sequence, extended timeline, possibility that some elements may not be completed as assumed, and effects on regional ecological, flood, and water supply benefits and risks. Regional water control plans and Savings Clause analyses must be revisited and integrated at each stage of project or component design and implementation. A plan for such re-evaluations of CEPP components and operating plans should be described in the Adaptive Management Plan as well.

Sequencing of Project Components

Miami-Dade is pleased that proposed sequencing strategies generally recognizes the need to have seepage management features in place and operational prior to or concurrently with components that are expected to improve conveyance to Northeast Shark River Slough. However, we recommend that operation of the S-356 pump at its current capacity be actively

pursued immediately. This Mod Waters feature, together with the existing seepage barrier pilot project constructed by the rockmining industry, represents an opportunity to address seepage that currently exists, as well as incremental increases in seepage that could result from weather events or water management to address ponding in WCA3a. Some early ecological benefits for Northeast Shark River Slough, southern WCA3a, listed species, and southern estuaries could be achieved by improved delivery and distribution of water already in the system, or more flexibility in water management options as Tamiami Trail improvements are completed. Operation of these seepage management features, that are already on the ground, make early benefits a reasonable expectation, and their integration into CEPP should not be deferred until new water is made available. The current S-356 and barrier wall should be utilized for assessment of performance and refinement of localized models, engineering design and operating plans.

• Annex D Adaptive Management Plan Approach to Seepage Barrier Issues

Miami-Dade is pleased that the Adaptive Management (AM) plan includes a specific uncertainty related to effectiveness of the proposed seepage barrier with respect to Savings Clause issues of flood protection and water supply. However, some of the proposed "management options" or metrics/triggers and monitoring approaches are of great concern. For example, the in Annex D Section 1-83, it is suggested that if seepage occurs around the "north end" of the proposed seepage barrier then it may be extended to the north into the "triangle". A wall extending to the north (which was part of Alt 2 and Alt 3) was not carried into Alt4 when Alt 4 was identified as the preferred alternative. Further, it is not clear how this management option would integrate with management of the L-29, the existing or proposed S-356, or any other infrastructure and operations in that area, or how deep an extended wall would be. Other content (see Annex D Section 1-85), such as inclusion of "windows" in the wall, increased stages in the WCA3b in the dry season to force water under the wall, or pumping around the wall in the dry season are options that are not well substantiated or documented. There is a proposal of "two feet of drawdown" in a wellfield cone of influence as a trigger for a management action. It is not clear to us what this means, what baseline would be employed, or where and when it would be modeled, measured or implemented. We do not recall these options or triggers ever being discussed in interagency meetings. We recommend that these more detailed elements of the AM plan be revisited, and that any concept of such management options or triggers must be integrated with other features and operation metrics for the WCAs, ENP, L-29, L-30, and L-Miami-Dade also has questions and concerns about the descriptions of proposed monitoring for AM (or water quality and hydrology) and costs. Miami-Dade does have an existing network of surface and groundwater monitoring stations which help to define larger scale geographic and temporal conditions, but the spatial extent of these is not adequate to specifically address the effectiveness of the seepage barrier or other CEPP components. Additional surface water and groundwater monitoring stations would be required to assess potential affect of the seepage barrier, pumps, and detention areas on water flows, stages, and quality in the adjoining and downstream canals and wellfields.

Savings Clause Baseline

Miami-Dade has clearly stated from the beginning of CEPP discussion that the Savings Clause modeling analysis should be based upon comparison to a baseline condition that describes the flood level of service and water supply characteristics that existed on the date of enactment of WRDA 2000. Despite clear and direct language in WRDA, the Savings Clause analyses in the PIR were made by comparison of Alt4R2 to the assumed future without CEPP in place. Miami-Dade

has reviewed and understands the arguments offered by the USACE in the PIR for this approach, but we respectfully cannot concur with this interpretation or conclusions regarding Savings Clause compliance that flow from it. For example, Miami-Dade understands that the operations plans in place in 2000 are no longer considered viable and have been replaced with a new transition plan, which focuses on protection of endangered species habitat. The Draft PIR Savings Clause analysis describes the new transition plan as a non-CERP "intervening condition", which is not subject to Savings Clause considerations. However, the CEPP modeling evaluation also assumes that this plan will be used as the CEPP Alt4R2 operating plan, even though it does not include some existing Mod Water features, such as operation of the S-356 pump. "Annex C - Project Operating Manual" also includes ERTP operating criteria for new or existing components. It is our position that once an interim or transition operating plan, which was not approved as a permanent plan or with the benefit of the excellent modeling tools now available, becomes integrated as a CERP operating plan that it in fact is subject to Savings Clause, or at least the intent of the Savings Clause, to assure that ecological restoration will also maintain or improve flood protection and water supply compared to conditions at the time WRDA 2000 was enacted. Miami-Dade does not object to use of a "future without CEPP" scenario for comparison of the performance of various alternatives, determination of new water made available by the project or various benefit analyses.

Sea Level Rise Considerations

Miami-Dade identified evaluation of projected sea level rise as an issue during CEPP scoping, particularly from the perspective of maintaining freshwater flows and stages so as to optimize strategies for protecting coastal water supply wells from saltwater intrusion, and also from the perspective of system structure operations for maintaining flood control. We are pleased that there is some consideration of this issue, but the discussion in the report largely addresses estimation of the effect of sea level rise on project ecological benefits in coastal wetlands. Miami-Dade recommends that sea level rise considerations also take into evaluation of CEPP operations for drainage and for saltwater intrusion in coastal wellfields.



Arthur R. Marshall Foundation & Florida Environmental Institute, Inc., for the Everglades Public Comment November 1, 2013, on The CEPP DRAFT Project Implementation Report (PIR)

The Art Marshall.org is pleased to have the opportunity to comment on the Central Everglades Panning Project (CEPP) Draft PIR. These comments are an expansion of public comment provided to the Water Resources Advisory Commission (WRAC) Oct 3, 2013, following the CEPP update by Tom Teets, SFWMD, and a minor update of earlier comments provided Oct 15, 2013.

EXECUTIVE SUMMARY: We support CEPP as the first step in CERP to restore sheet flow as envisioned in the 1981 Marshall Plan published as Friends of the Everglades News Letter and petition, by Marjory Stoneman Douglas: Effective repair requires restoration of sheet flow to the greatest possible extent from the Kissimmee Lakes to Florida Bay.... The purpose of this petition is to achieve environmental benefits accruing farm repair of the Everglades. As it was in the Marshall Plan, benefits is a powerful word in the CEPP DRAFT PIR, with the word benefits appearing some 175 times in the CEPP main document. However the absence of a publishable ecosystem services valuation (ESV) to define benefits, relative to cost, thus absent a clear measure of CEPP return on investment, is a deficiency that makes the CEPP PIR sticker shock price harder to sell. As noted by the National Research Council (NRC 2005) no publishable value results in a default value of zero (0). A Total Economic Valuation of CEPP benefits, a synthesis format per NRC 2005, remains an unfulfilled challenge to what could be a major enhancing feature for better environmental decision-support in CEPP. Based on CEPP ESV Calculations in the attached spread-sheet, and previous demonstrations we conclude that a TEV of benefits will always lead to a robust B:C calculation of an order of magnitude approximating 20:1. We also conclude that the ESV approach would demonstrate that the value of restoring sheet flow is much greater than the value of a massive reservoir system in an analysis of alternatives trade-off using the B:C ratio.

DISCUSSION AND RESULTS

We support the CEPP. Having been involved in and observed at close hand, CERP/CEPP from December, 1997 to present. The CEPP process has been an amazing and encouraging process. Kudo's to the CEPP PDT and all who supported it for speeding it along, with more streamlining of process to go to meet deadlines.

In the list of public comments received summarized in the WRAC update, we would emphasize the need for a flow through system and more EAA land acquisition, to meet dynamic storage and sheet flow requirements per CERP Section 2.3.1, and less emphasis on massive reservoirs as advocated in some quarters.

We would add the need for a publishable CEPP Ecosystem Service Valuation (ESV) as the means to better sell the CEPP program and get funding by a synthesis that is clear to all. CEPP benefits are widely touted, with the word "benefit" appearing 175 times in the PIR main report. However there is no published economic value given to these benefits. A major point made by a National Research Council (NRC) 2005 Study is that when no value for services is given for an Ecosystem, the default value is zero (0).

As we have done in the past, (ARM Foundation: Economic Valuation of Restoring the River of Grass, 2010) we are providing as part of this comment, a demonstration on how a total economic valuation (TEV - NRC 2005) might be done for CEPP. We have used CEPP habitat unit assessment (HUA) "lift" data (difference in ESV before CEPP and after CEPP), and applied the benefit transfer method using generic ecosystem habitat ESV calculated in the Constanza Synthesis (1997).

The result is a demonstrated notional TEV of \$53.353 Billion at an estimated cost of \$2.024 million, for a benefit/cost of 26.36. The calculated B/C ratio of 26.36 fell just slightly higher than the same range of values demonstrated by our ARM 2010 summer interns where B/C = B:C ranged from 5 to 24.

From repeated demonstrations, we conclude that a govt calculated TEV would place the economic value of ecological benefits in its proper perspective. This can then be related to cost in a B:C ratio, to provide a clear measure of Return on Investment. We conclude that this would provide a clear and measurable synthesis based on TEV that would sell the program.

While the Costanza Synthesis has evoked some controversy as to its practical applications, it appears to be the only ESV paradigm available to provide a quick, inexpensive reality check on the ESV expected value for a given ecosystem, and a guide-line on how to proceed with a more localized TEV. In the face of the PCAST (2011) Report to the President and the call for agencies of the federal government to move in this direction, and the NRC 2005 Study, the move in this direction is costly slow. More applications are needed.

Consider the following Syllogism.

- Environmental Capital provides the basis for all economic activity.
- Environmental Capital in the form of Ecosystem Services is of significant value to society.
- Assigning a Total Economic Value to Ecosystem Services over time is a way to sustain environmental capital
 to protect society and the economy. What gets measured gets done
- Conclusion: The dollar value of Ecosystem Services restored, enhanced, and sustained will be much greater than the cost to restore, enhance and sustain same.

Thus robust B:C ratios greater than 20:1 should be no surprise. In the case of the attached calculations giving a B:C of 26.36, a few comments: (1) The large B:C should be no surprise; (2) the ESV calculation based on HUA may be mildly optimistic, as a result of computer generated habit units based on performance measures. (3) For a conservative estimate of the value of wetlands, swamps (forested wetlands) and estuaries, for back of the envelop calculations: Think \$10,000 per acre per year and multiply \$10,000 by number of acres and years of life cycle (~40 years).

There are three possibilities for calculating CEPP ESV in the TEV recommended by NRC 2005

- 1. Use the somewhat controversial Costanza Synthesis (1997) and benefits transfer for a quicker, better, cheaper approach for a ball park same order of magnitude expected value. 2. Spend three years and a few million dollars to provide the preferred local TEV calculation of benefits.
- 3. Absent a publishable TEV of benefits, the default value of benefits is zero (0) (NRC 2005), and there is over-focus on costs even as benefits are mentioned 175 times. This is the present case for CEPP.

If Mark Perry were here for the Rivers Coalition, instead of DC, [giving testimony to Congress on the need to protect and restore the estuaries] he would be calling for more flow south, Plan 6 being the fix, Plan 6 being a central element of the Marshall Plan.

We support CEPP as an initial increment of the Marshall Plan, 1981, which had as its central element, what became Plan 6 in 1994. This was not an accident. Art's vision expressed in the 1981 – 1984 Marshall Plan, published by Marjory Stoneman Douglas as a *Friends of the Everglades* News Letter and a petition to all levels of government. The primary thrust was to restore sheet flow from the Kissimmee Basin to Florida Bay.

In context of a principle objective of CERP, read this as Full DECOMP, and restoring habitat and functional quality. We need to keep our eyes on the prize. Given the WRAC comments October 3, 2013, that is not happening. The devil remains in the details which impedes the total ecosystem approach, a tenet of the Task Force strategic plan.

In a recent Regional Climate Action Plan (RCAP) Brief to the PB Count Commission, we made comments that CERP/CEPP was an essential element to an Action Plan. We were pleased to see at the top of the RECAP action list: Planting Trees!

This immediately brought to mind the need to restore the pond apple forest in CERP/CEPP as previously suggested as the means to (1) increase the spatial extent of natural area; (2) restore habitat and functional quality, and increase native species an abundance per CERP Table 5-1 goals and objectives.

Connecting the dots to the previous presentation which mentioned the Okeechobee Gourd as an endangered species. The pond apple forest provides the habitat for the Okeechobee Gourd, an endangered species.

Recognizing that actions on many of these comments must come in subsequent CEPP increments, we fully support CEPP increment 1 as a significant step to restore the Everglades and save the planet in Art Marshall fashion. Thank you for your consideration.

Respectfully submitted,

//S// GreMarshall

John Arthur Marshall, Chairman of the Board.

<u>Attachment</u>: Spread-sheet model that demonstrates TEV by a notional CEPP ESV calculation. <u>References</u>:

Arthur R. Marshall Summer Interns (2010); Valuing Ecosystem Services of a Restored River of Grass; Anglique Giraud, et al; http://www.conference.ifas.ufl.edu/GEER2010/Poster%20PDFs/Marshall.pdf

Costanza Synthesis: 1997: The value of the world's ecosystem services and natural capital, Robert Costanza, et al; Google Nature 387.

NRC 2005 Study: Valuing Ecosystem Services – Toward Better Environmental Decision-Making; the National Academies Press

PCAST 2011: President's Council of Advisors on Science & Technology; Report to the President: Sustaining Environmental Capital: Protecting Society and the Economy.

http://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast_sustaining_environmental_capital_report.pdf

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Managerow S9,990 D.ADARSE S4,043 1.576 S6,271 mangrows forest/trox S2,007 0.404686 S812 1.576 S1,280 forest forest/trox S2,007 0.404686 S812 1.576 S1,280 forest forest/trox S2,007 0.404686 S940 S4,702 wetscrub wetscrub wetscrub wetscrub wetscrub Sawgrass Use 1/2 Wetland 0.5 9404 \$4,702 swagrass Use 1/2 Wetland 0.5 9404 \$4,702 swagrass Wetscrub wetscr	Estuary Seagrass Swamps	1994 \$/acr TEV, Hecta \$22,832 \$19,004 \$19,580	0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924	1.576 1.576	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488	Estuary Seagrass Swamps				
Forest Content Conte	Estuary Seagrass Swamps Flood Plair	1994 \$/acr TEV, Hecta \$22,832 \$19,004 \$19,580 \$19,580	0.404686 0.404686 0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924	1.576 1.576 1.576 1.576 1.576	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488	Estuary Seagrass Swamps Flood Plain				
Wet Scrub Use 1/2 Wethard	Estuary Seagrass Swamps Flood Plair Wetlands	1994 \$/acr TEV,Hecta \$22,832 \$19,004 \$19,580 \$19,580 \$14,745	0.404686 0.404686 0.404686 0.404686 0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967	1.576 1.576 1.576 1.576 1.576 1.576 1.576	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404	Estuary Seagrass Swamps Flood Plain Wetlands	S			
Wet Scrub Use 1/2 Wetland	Estuary Seagrass Swamps Flood Plair Wetlands	1994 \$/acr TEV,Hecta \$22,832 \$19,004 \$19,580 \$19,580 \$14,745	0.404686 0.404686 0.404686 0.404686 0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967	1.576 1.576 1.576 1.576 1.576 1.576 1.576	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404	Estuary Seagrass Swamps Flood Plain Wetlands	S			
Savgrass Use I/2 Wetland 0.5 9404 54.702 savgrass	Estuary Seagrass Swamps Flood Plair Wetlands mangrove	1994 \$/acr TEV, Hecta \$22,832 \$19,004 \$19,580 \$19,580 \$14,745 \$9,990	0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043	1.576 1.576 1.576 1.576 1.576 1.576 1.576	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371	Estuary Seagrass Swamps Flood Plain Wetlands mangroves	S			
Rangeland S232 0.404686 S94 1.576 S148 Maril P	Estuary Seagrass Swamps Flood Plair Wetlands mangrove forest/tro	1994 \$/acr TEV, Hecta \$22,832 \$19,004 \$19,580 \$19,580 \$14,745 \$9,990 \$\$2,007	0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043 \$812	1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest	S			
TEV	Estuary Seagrass Swamps Flood Plair Wetlands mangrove forest/tro Wet Scrub	1994 \$/acr TEV, Hecta \$22,832 \$19,004 \$19,580 \$19,580 \$14,745 \$9,990 \$2,007 Use 1/2 W	x conversion 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043 \$812 0.5	1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280 \$4,702	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest Wetscrub	S			
Fundamental application questions How close to reality is a local TEV to a global TEV synthesis of similar habitat by SME? How long will it take to develop an accurate local TEV v. using Global Synthesis Data? How long will it take to develop an accurate local TEV v. using Global Synthesis Data? ECE-1 shoal grass, widepon grae Estuary Sea Grass Mangrones Subtotal TEV SACVIV SSE-1 shoal grass, widepon grae Estuary Sea Grass Mangrones Subtotal TEV SACVIV SSE-1 shoal grass, manatee gr \$14,562 S12,120 S6,371 S33,053 \$11,018 SSE-1 shoal grass, manatee gr \$14,562 S12,120 S6,371 S33,053 \$11,018 SS-1 shoal grass, Wet Scrubland, Floating Emergent, Open Marsh 4702 4702 S9,404 S18,808 S6,269 AM-NE- Sawgrass, Cattal, Floating Emergent, Open Marsh 4702 S9,404 S18,808 S6,269 AA-NUS Sawgrass, Floating Emergent, Depen Marsh, Spikerush, Cattall 4702 S9,404 4702 S18,808 S6,269 AA-C Sawgrass, Open Marsh, Floating Emergent, Cattall, Spikerush A702 S9,404 F102 S18,808 S6,269 AA-C Sawgrass, Open Marsh, Floating Emergent, Cattall S9,404 S18,808 S6,269 S9,404 4702 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S5,404 A702 S18,808 S6,269 SS-269 S5,404 A702 S18,808 S6,269 SS-269 S5,404 S4,702 S18,808 S6,269 SS-269 S5	Estuary Seagrass Swamps Flood Plair Wetlands mangrove forest/tro Wet Scrub Sawgrass	1994 \$/acr TEV, Hecta \$22,832 \$19,004 \$19,580 \$19,580 \$14,745 \$9,990 \$2,007 Use 1/2 W Use 1/2 W	0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043 \$812 0.5	1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 9404 9404	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280 \$4,702 \$4,702	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest Wetscrub sawgrass	S			
Fundamental application questions How close to reality is a local TEV to a global TEV synthesis of similar habitat by SME? How long will it take to develop an accurate local TEV v. using Global Synthesis Data? How long will it take to develop an accurate local TEV v. using Global Synthesis Data? ECE-1 shoal grass, widepon grae Estuary Sea Grass Mangrones Subtotal TEV SACVIV SSE-1 shoal grass, widepon grae Estuary Sea Grass Mangrones Subtotal TEV SACVIV SSE-1 shoal grass, manatee gr \$14,562 S12,120 S6,371 S33,053 \$11,018 SSE-1 shoal grass, manatee gr \$14,562 S12,120 S6,371 S33,053 \$11,018 SS-1 shoal grass, Wet Scrubland, Floating Emergent, Open Marsh 4702 4702 S9,404 S18,808 S6,269 AM-NE- Sawgrass, Cattal, Floating Emergent, Open Marsh 4702 S9,404 S18,808 S6,269 AA-NUS Sawgrass, Floating Emergent, Depen Marsh, Spikerush, Cattall 4702 S9,404 4702 S18,808 S6,269 AA-C Sawgrass, Open Marsh, Floating Emergent, Cattall, Spikerush A702 S9,404 F102 S18,808 S6,269 AA-C Sawgrass, Open Marsh, Floating Emergent, Cattall S9,404 S18,808 S6,269 S9,404 4702 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S9,404 A702 S18,808 S6,269 SS-269 S5,404 A702 S18,808 S6,269 SS-269 S5,404 A702 S18,808 S6,269 SS-269 S5,404 S4,702 S18,808 S6,269 SS-269 S5	Estuary Seagrass Swamps Flood Plair Wetlands mangrove forest/tro Wet Scrub Sawgrass	1994 \$/acr TEV, Hecta \$22,832 \$19,004 \$19,580 \$19,580 \$14,745 \$9,990 \$2,007 Use 1/2 W Use 1/2 W	0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686	1994 \$/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043 \$812 0.5	1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 9404 9404	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280 \$4,702 \$4,702	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest Wetscrub sawgrass	S			
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SE-1	Estuary Seagrass Swamps Flood Plain Wetlands mangrove forest/tro Wet Scrub Sawgrass Rangeland TEV - Tota Fundamer How close How long	1994 \$/aci 1EV, Hecta \$22,832 \$19,004 \$19,580 \$ \$19,580 \$ \$14,745 \$ \$9,990 \$ \$2,007 \$ \$2,007 \$ \$12 Economic 1 \$ \$232 I Economic to reality is will it take t	e/Yr x conversion 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 404686 Value Value tion questions: a local TEV to to develop an a	1994 S/acre/y TEV acre \$9,240 \$7,924 \$7,924 \$7,924 \$7,924 \$5,967 \$4,043 \$812 0.55 0.55 \$94	Inflate to 20 Govt factor 1.576 1.576 1.576 1.576 1.576 1.576 9404 1.576 9404 1.576	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280 \$4,702 \$4,702 \$148 milar habitatiobal Synthe	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest Wetscrub sawgrass Marl P	S			
3A-NE - Sawgrass, Wet Scrubland, Floating Emergent, Open Marsh	Estuary Seagrass Swamps Flood Plai Wetlands mangrove forest/tro Wet Scrub Sawgrass Rangeland TEV - Tota Fundamer How close	1994 \$/aci 1EV, Hecta \$22,832 \$19,004 \$19,580 \$ \$19,580 \$ \$14,745 \$ \$9,990 \$ \$2,007 \$ \$2,007 \$ \$12 Economic 1 \$ \$232 I Economic to reality is will it take t	e/Yr x conversion 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 404686 Value Value tion questions: a local TEV to to develop an a	1994 S/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043 \$8122 0.5 0.5 994 a global TEV S accurate local 1 Estuary	Inflate to 20 Govt factor 1,576 1,576 1,576 1,576 1,576 1,576 1,576 1,576 1,576 1,576 9404 1,576	\$/Acre/Year 2013 Value \$14,562 \$12,150 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280 \$4,702 \$148 milar habitat ilobal Synthe	Estuary Seagrass Swamps Flood Plain Wetlands Wetscrub sawgrass Marl P by SME? sis Data?	s Calculated			
4702	Estuary Seagrass Swamps Flood Plain Wetlands mangrove forest/tro Wet Scrub Sawgrass Rangeland TEV - Tota Fundamer How close How long	1994 \$/acr \$22,832 \$19,004 \$19,580 \$19,580 \$14,745 \$9,990 \$2,007 Use 1/2 W Use 1/2 W I \$232 I Economic	re/yr x conversion 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 etland 0.404686 Value tion questions: a local TEV to to develop an inconversion grant s, widgeon gra	1994 S/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043 \$812 0.55 0.55 \$94 a global TEV 5 accurate local	Inflate to 20 Govt factor 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 9404 1.576 9404 1.576 Sea Grass \$12,120	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280 \$4,702 \$4,702 \$148 milar habitat lobal Synthe Mangroves \$6,371	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest Wetscrub sawgrass Marl P by SME? sis Data? Subtotal \$33,053	Calculated TEV. S/Ac/yr \$11,018			
4702	Estuary Seagrass Swamps Flood Plain Wetlands mangrove forest/tro Wet Scrub Sawgrass Rangeland TEV - Tota Fundamer How close How long	1994 \$/acr \$22,832 \$19,004 \$19,580 \$19,580 \$14,745 \$9,990 \$2,007 Use 1/2 W Use 1/2 W I \$232 I Economic	re/yr x conversion 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 etland 0.404686 Value tion questions: a local TEV to to develop an inconversion grant s, widgeon gra	1994 S/acre/y TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043 \$812 0.55 0.55 \$94 a global TEV 5 accurate local	Inflate to 20 Govt factor 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 1.576 9404 1.576 9404 1.576 Sea Grass \$12,120	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280 \$4,702 \$4,702 \$148 milar habitat lobal Synthe Mangroves \$6,371	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest Wetscrub sawgrass Marl P by SME? sis Data? Subtotal \$33,053	Calculated TEV. S/Ac/yr \$11,018			
4702	Estuary Seagrass Swamps Flood Plain Wetlands mangrove forest/tro Wet Scrub Sawgrass Rangeland TEV - Tota Fundamer How close How long CE-1 SE-1	1994 \$/acr FEV.Hecta \$22,832 \$19,004 \$19,580 \$19,580 \$19,580 \$21,745 \$2,007 Use 1/2 W Use 1/2 W Use 1/2 W Is \$232 I Economic to reality is will it take to shoal grass	re/Yr x conversion 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 value 2 to 4 to 4 to 4 to 4 to 4 to 4 to 4 to	1994 S/acre/, TEV acre \$9,240 \$7,691 \$7,924 \$7,924 \$5,967 \$4,043 \$812 0.5 0.5 \$94	Inflate to 20 Govt factor 1.576 1.5	\$/Acre/Year 2013 Value \$14,502 \$12,120 \$12,488 \$12,488 \$12,488 \$9,404 \$6,371 \$1,200 \$4,702 \$148 milar habitat iobal Synthe Mangroves \$6,371 \$6,371	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest Wetscrub sawgrass Marl P by SME? sis Data? Subtotal \$33,053	Calculated TEV. S/Ac/yr \$11,018			
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38 - Sawgrass, Open Marsh, Cattall 4702 518,808 56,269	Estuary Seagrass Swamps Flood Plain Wetlands Wetlands Wortlands Worts Rangelan TEV - Tota Rangelan How close of How long CE-1 3A-NE- 3A-NC- 3A-NC- 3A-NC-	1394 \$/ac 12.832 \$22,832 \$22,832 \$19,004 \$19,580 \$19,580 \$51,580 \$51,580 \$51,785 \$51,990 \$51,785 \$51,990 \$51,785 \$51,990 \$51,785 \$51,990 \$51,785 \$51,990 \$51,785 \$51,990 \$51,785 \$51,990 \$51,785 \$51,7	re/yr x conversion 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 0.404686 Value tion questions tion develop an included the properties of the proper	1994 S/Acre/y TEV acre \$9,240 \$7,924 \$7,924 \$7,924 \$5,967 \$4,043 \$812 0.5 0.5 0.5 0.5 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Inflate to 20 Govt factor	\$/Acre/Year 2013 Value \$14,562 \$12,120 \$12,488 \$12,488 \$9,404 \$6,371 \$1,280 \$4,702 \$148 milar habitat slobal Synthe Mangroves \$6,371 \$6,371 \$6,371 Marsh	Estuary Seagrass Swamps Flood Plain Wetlands mangroves forest Wetscrub sawyrass Marl P by SME? sis Data? Subtotal \$33,053 \$33,053 \$18,808 \$18,808	Calculated TEV. S/Ac/yr 511,018 \$11,018 \$6,269 \$6,269			
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1000 Friends of Florida * Audubon Florida * Audubon of the Western Everglades * Clean Water Action * Conservancy of Southwest Florida Defenders of Wildlife * Everglades Foundation * Everglades Law Center Florida Oceanographic Society * Friends of Arthur R. Marshall Loxahatchee National Parks Conservation Association * Natural Resources Defense Council * Reef Relief * Sierra Club *Sierra Club Broward Group Sierra Club Loxahatchee Group * Sierra Club Miami Group * South Florida Audubon *Tropical Audubon Society * United Waterfowlers

October 10, 2012

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Dr. Ehlinger et al.;

On behalf of the above listed organizations, we would like to thank you for the opportunity to comment on the Central Everglades Planning Project (CEPP). Timing is of the essence to halt irreversible ecosystem degradation and avoid the high costs of delay. As a pilot project, CEPP embodies the sound planning and unprecedented public input that can be accomplished with modernized planning and provides a significant step to restoring America's Everglades. Thus, we implore you to highlight the success of this effort and eliminate any remaining procedural obstacles to deliver a Chief's Report on this historic project by December 31, 2013.

The CEPP Tentatively Selected Plan (TSP) is a worthy investment that delivers significant benefits to reduce damaging discharges to the Caloosahatchee and St. Lucie estuaries; to restore habitat in the central Everglades, focusing on the "River of Grass"; and to deliver an annual average of 210,000 acre-feet of water from Lake Okeechobee to the central Everglades, Everglades National Park (ENP) and Florida Bay.

Pilot Project Success

The bundling of project elements to produce a cost-effective TSP, which delivers broad benefits, provides a model for long-term success in advancing Everglades restoration. We are delighted with efforts to capture the value of ecosystem services postulated by this project and encourage this type of evaluation going forward. We applaud the utilization of existing data and tools developed in previous Decompartmentalization and Sheet Flow Enhancement Project (DECOMP) and other previous planning efforts. Moreover, the public engagement model used by the South Florida Ecosystem Restoration Task Force created an extraordinary platform for stakeholder participation in this truncated timeline that we hope to see replicated. We acknowledge that concerted efforts by the PDT have already reduced anticipated project costs by over \$200 million dollars. We look forward to continuing to find cost control measure and taking advantage of the South Florida Water Management District's experience and proficiency

in constructing restoration projects within this unique ecosystem. The significant leadership undertaken by the state and federal partners to overcome obstacles to advancing this project should be heralded. There are some uncertainties inherent to a project of this scope that includes a considerable implementation period. These uncertainties should be acknowledged and addressed during the course of executing Everglades restoration but should not become justification to forestall the implementation of CEPP or delay the substantial ecosystem benefits provided by this project. CEPP's adaptive management plan provides needed flexibility and should be utilized.

Endangered Species Recovery

Everglades restoration is good for endangered species throughout the ecosystem. The CEPP TSP benefits more than 1.5 million acres of habitat across the Greater Everglades, from the northern estuaries, Water Conservation Area 3A (WCA-3A) and Water Conservation Area 3B (WCA-3B), ENP, and Florida Bay as well as a vast estuarine area along the SW coast of Florida from Whitewater Bay to Broad River. Overall, the TSP is best for the Everglades food web and endangered species such as the Everglade Snail Kite, Wood Stork, and American crocodile. Benefits to the Cape Sable Seaside Sparrow (CSSS) will be realized in the long run as we continue to shift the balance of flow from the S-12s through WCA-3B into Northeast Shark River Slough (NESRS). CEPP takes a first, significant step at doing that.

We are encouraged by agency efforts to pro-actively manage habitat to ameliorate any short-term impacts to CSSS associated with construction of the TSP while we wait for CEPP to come online. These changes include, but are not limited to, revisiting operation regimes including the Everglades Restoration Transition Plan which will be revisited in 2016. If potentially adverse effects are observed or predicted, longer-term impacts to CSSS associated with the operation of project features would be addressed through operational monitoring and adaptive management actions. We look forward to reviewing the Service's analysis of the modeling results for hydrologic impacts to the CSSS and its habitat. ESA consultation must address potential adverse effects to the CSSS, including by requiring robust monitoring of habitat conditions and breeding success and clear triggers for mitigation action in the event of adverse effects, with mitigation actions agreed to in advance. We urge the agencies to advance CEPP and Everglades restoration while continuing to ensure an adequate nesting window for all CSSS subpopulations and hydrologic regimes that support the bird's habitat – short-hydroperiod freshwater marl prairies in the southern Everglades.

Water Supply Benefits

The TSP results in meaningful restoration of the heart of Everglades and is consistent with CEPP's three initial project purposes to: reduce damaging discharges to east and west coast estuaries; restore habitat in the central Everglades focusing on the "River of Grass"; and deliver "new" sources of clean water to the central Everglades and ENP. This plan successfully increases water quantities delivered south to the natural system and municipal users without reducing the levels of service for agricultural or other existing legal users as provided for in the Water Resources Development Act (WRDA) 2000 Savings Clause. Seepage management features proposed are necessary to reduce the loss of water from the natural system and are key elements to avoid flooding in urban and agricultural communities. We support the adaptive

management plan language for water quality monitoring, including salinity, in Biscayne Bay that result from seepage controls. We caution that underground seepage barrier walls are permanent structures and request that design need be continually evaluated prior to implementation of this feature. We should also continue to establish baseline data to better understand any canal and groundwater flow impacts. If potentially adverse effects are observed or predicted, longer-term impacts to Biscayne Bay associated with the operation of project features should be addressed through operational monitoring and adaptive management actions.

Recreational Opportunities

The CEPP TSP embraces innovative partial backfill and plugging opportunities in the L-67A, L-67C and Miami Canal that create continued fishing opportunities and restore sheetflow. CEPP will provide greatest recreational benefits in the dry season, when soils are currently at highest risk of oxidation leading to habitat (ridge-and-slough and tree island) loss—particularly in northern WCA-3A, NE SRS, and WCA-3B. As a result, the TSP will cut the number of fire closures for recreationalists by half, while reconnecting habitat and hydrology needed to protect remaining and restore lost habitat. Restored ecological connectivity between WCA-3A, WCA-3B and Everglades National Park will also improve estuarine conditions and fisheries habitat in Florida Bay and along the southwest coast of Florida.

Restoring Sheet Flow

The Blue Shanty Flow-way (L-67D) feature provides a unique opportunity to restore sheet flow while utilizing an already impacted part of the landscape. We must remain focused that this feature is intended to allow for restoration of sheetflow, the creation of ridge-and-slough habitat and fishery improvement. The L-67D is a necessary prosthesis to orient flow in such an impacted system that has undergone significant soil oxidation/elevation loss and landscape pattern deterioration and should not be interpreted or designed as a flood control structure. We support the use of adaptive management to determine the true need for, best use of, placement for and design needs for this feature. Current criteria mandating a 6-ft high levee with a 14-ft wide crest and 3:1 sloping banks constitute an unnecessary level of flood control to an undeveloped natural wetlands area. Furthermore, adequate seepage control benefits for WCA-3B can be achieved by utilizing a temporary berm to "train" the River of Grass flow from gated structures along L-67-A while providing significant cost savings. We remain committed to feature refinements throughout the design process that allow us to greatly increase ecological connectivity through the degradation of the L-29 and is compatible with the 2.6-mile bridge provided for in the Tamiami Trail Next Steps project. The removal of existing levees and other obstructions to flow is fundamental to advancing restoration objectives envisioned in CERP.

Conclusion

We believe that the CEPP reflects a tremendous undertaking and the TSP achieves the highest ecosystem benefits possible within existing lands in public ownership. As plans to sequence interdependent projects are developed, concurrent construction of multiple projects should be prioritized to avoid implementation delays. We urge that all opportunities to begin construction of CEPP as soon as possible be explored.

We commend the Project Delivery Team on this highly successful pilot planning effort and honor their tremendous efforts by remaining committed to ensure CEPP's expediting this process are not undermined by bureaucratic delays. A Chief's Report by December 2013 and inclusion of CEPP in a 2013 WRDA is essential to our ability to increase water flows to the central Everglades, provide relief to the northern estuaries and provide short term ecological benefits for restoring America's Everglades.

Sincerely,

/signatures waived to expedite delivery/

Charles Pattison, President 1000 Friends of Florida

Julie Hill-Gabriel, Director of Everglades Policy Audubon Florida

Brad Cornell, Southwest Florida Policy Associate Audubon of the Western Everglades

Kathleen Aterno, Florida Director Clean Water Action

Jennifer Hecker, Director of Natural Resource Policy Conservancy of Southwest Florida

Laurie MacDonald, Florida Program Director Defenders of Wildlife

Eric Eikenberg, CEO Everglades Foundation

Sara Fain, Executive Director Everglades Law Center

Mark Perry, Executive Director Florida Oceanographic Society

Elinor Williams, President Friends of ARM Lox NWR

John Adornato, Sun Coast Regional Director National Parks Conservation Association Brad Sewell, Senior Attorney Natural Resources Defense Council

Millard McCleary, Executive Program Director Reef Relief

Jonathan Ullman, Everglades Senior Field Organizer Sierra Club

Stanley Pannaman Sierra Club Broward Group

Stephen Mahoney, Conservation Chair Sierra Club Miami Group

Drew Martin, Conservation Chair Sierra Club Loxahatchee Group

Doug Young, President South Florida Audubon Society

Laura Reynolds, Executive Director Tropical Audubon Society

Newton Cook, Executive Director Ducks Unlimited



August 29, 2013

Colonel Alan M. Dodd U.S. Army Corps of Engineers 701 San Marco Boulevard Jacksonville. FL 32207

Re: Central Everglades Planning Project Draft PIR Release

Dear Colonel Dodd:

Thank you for your leadership and the tremendous effort of the Army Corps in working to prepare the draft Project Implementation Report (PIR) for the Central Everglades Planning Project (CEPP). Clean Water Action looks forward to reviewing the PIR closely now that it has been made publically available as of this morning. We applaud the dedicated effort of the Army Corps and the South Florida Water Management District teams that led to this decisive next step toward restoring much-needed flow to the southern Everglades ecosystem.

The timing of CEPP approval is critical. With Congress considering the Water Resources Development Act (WRDA) of 2013, we have the opportunity to have this important project authorized this year. If this window of opportunity is missed, CEPP may be forced to wait in the queue for Congressional authorization for years while the ecosystem and surrounding communities – including those of the St. Lucie and Caloosahatchee estuaries – continue to decline and suffer. We simply cannot wait.

Given the narrow window of opportunity available with WRDA. Clean Water Action urges you to ensure that the public comment window be kept to the minimum requirement of 45 days and not be extended any further. Even pushing the comment period by an additional two weeks could mean missing the December 31st deadline for 2013 authorization. Given the tremendous effort already exerted by agency staff, stakeholders, and the public over the past 18 months, we hope you will use your leadership position to ensure that momentum will not let up as the deadline approaches.

Thank you again for your commitment and leadership. Please contact Clean Water Action at (561) 672-7638 or flowa@cleanwater.org with any questions or concerns.

Sincerely.

Kathleen E. Aterno Florida Director

7300 N. Federal Highway, Suite 200, Boca Raton, FL 33487 | p: (561) 672-7638 | e: flcwa@cleanwater.org

October 22, 2013

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Dr. Ehlinger

On behalf of the Sierra Club Everglades restoration team we would like to thank you for your work on developing the Central Everglades Planning Project (CEEP) and on providing us with the opportunity to comment on this project. We applaud the Army Corps of Engineers efforts in developing and implementing this massive project in restoring clean water flow throughout the Everglades. This letter is in addition to the comment letter we submitted with other environmental organizations (attached).

A major concern we have is in the timing of the components and whether they will achieve a reduction in harmful flows to the estuaries in time to prevent more serious harmful algal blooms. We believe that the discharges of polluted waters into the Caloosahatchee and St. Lucie estuaries should be addressed immediately through operational changes and through expediting those parts of the project that will permit water from Lake Okeechobee to be cleaned to the 10 parts per billion or less and transported south to the Park.

These discharges cause immediate and long-term harm to human and other marine and biological life. The algae produced by these polluted discharges causes harmful effects, including the poisoning of fish and shellfish, habitat disruptions for many organisms, water discoloration, beach fouling, and even toxic effects for humans and coral reefs. In 2013 alone in the Atlantic Ocean and Gulf of Mexico over 700 manatees have died directly from red tide and blue green algae pollution.

If we wait till 2018 to address the discharge of these heavily polluted waters into the Caloosahatchee and St. Lucie estuaries the cumulative effect will continue to be devastating to our environment, and we believe it will produce a massive die off of coral reefs off of South East Florida. Many marine animals have a symbiotic relationship to these corals in Palm Beach and Broward counties. These reefs also play a protective role during severe storms by absorbing storm wave action. Nutrients and turbidity that blocks sunlight destroy reefs.

Since tourism is the number one source of income for the state of Florida it is in Florida's best interest to make sure the environment that draws people from other states to ours is pristine and well preserved.

We encourage you to take the following actions:

- 1) Expedite the building of FEB and STA's that will clean the water from Lake Okeechobee.
- 2) Pursue the purchase of new lands that could facilitate a flow way south.
- 3) Set up operational changes that permit rain driven storm water in the WCA's when they are experiencing too much water to be transported into Everglades National Park when the water quality in these areas meets park standards.
- 4) Increase BMP requirements that reduce nutrient flows into the lake and we oppose back pumping of storm water into the lake. Additional distributed water storage will reduce these harmful discharges to the estuaries.
- 5) Take advantage of the Tamiami Trail bridging to send as much clean water as possible into the park.

Adaptive management permits you to modify your plans as you proceed. Please take advantage of any opportunities to increase sheet flows that clean water and sends it south towards Everglades National Park rather than into the estuaries.

Sincerely,

Jonathan Ullman

South Florida/Everglades Senior Representative

Sierra Club



Submitted via email to: CEPPcomments@usace.army.mil

October 10, 2013

Re: CEPP PIR for Tentatively Selected Plan

To whom it may concern:

Save the Manatee Club has reviewed the Project Implementation Report (PIR) for the Tentatively Selected Plan (TSP), Alternative 4R2, and recognizes the proposal for CEPP as one important component of a much larger plan of action to regulate discharges from Lake Okeechobee to the estuaries.

The current feast or famine management scheme sometimes inundates the estuaries with too much nutrient rich fresh water, and at other times deprives them of fresh water, which causes damaging salinity fluctuations. Pulses of flow create turbidity, cause sedimentation and nutrient enrichment, and support algal blooms, all of which limit or prevent seagrass growth and survival. Absence of flow increases salinity, particularly in the upper estuary, to levels that kill submerged aquatic vegetation like tape grass (*Vallisneria*).

We support CEPP because it will promote conditions to help restore seagrasses important for manatee forage, and oyster beds important for water quality and clarity, within the St. Lucie and Caloosahatchee estuaries, by reducing flows to each from Lake Okeechobee by 23% and 25%, respectively. Unfortunately, CEPP is only predicted to increase coverage of seagrass shoots by 8.5% in the Caloosahatchee and 6.6% in the St. Lucie (PDF p. 199). Florida Bay will also benefit from CEPP, because historic management of Lake Okeechobee has greatly reduced flows to the south and into the Bay, creating hypersaline conditions that have killed expansive beds of turtle grass (*Thalassia*). CEPP will increase southerly flows to Florida Bay. We offer the following comments and questions for consideration as the project plans are finalized.

Climate Change

We were pleased to see climate change scenarios considered in developing the recommended plan. If future adaptations to project construction and/or operation are necessary to respond to sea level rise, changes in rainfall, or other climate change-related scenarios, we request that plans to alter

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operations of CEPP components consider not only the impact on the land and water within the CEPP boundary, but also those areas outside the boundary that might be affected by such decisions. Stated simply, we don't wish to see the environment outside the project boundary degraded or compromised in the name of meeting project goals for CEPP.

Nutrient Concerns Related to Increased Water Availability

The report states that the TSP will increase water supply for municipal and agricultural users (PDF p.5) then says the project will increase water available for municipal and industrial users but maintain "existing water supply performance for agricultural users in the Lake Okeechobee Service Area" (PDF p.9). Clarification is needed as to whether additional water will be made available for agricultural uses as a result of this plan. If additional water is made available, then additional nutrientrich runoff will be produced, and the SFWMD should adjust BMP requirements accordingly to ensure that the existing problems associated with runoff are not exacerbated. Additionally, producers of nutrient-enriched runoff in the Everglades Agricultural Area (EAA) should be financially responsible for the treatment of this polluted water. This component of CEPP is not a financial burden that should be carried by the public, but by the private industry creating the pollution. Additionally, it is not clear how the additional 12 million gallons per day for Broward County and 5 million gallons per day for Miami-Dade County will be utilized. Although the report states that the stormwater treatment areas (STAs) will reduce phosphorus concentrations in the water to meet required water quality standards, this should be closely monitored, particularly if flows through the STAs are increased. Given the high nutrient content of water moving through this system, it will be important to ensure that nutrient loads to coastal waters are not increased as a result of this water delivery. The same assurances are needed for water that will be routed south to Florida Bay.

Clarifying Explanation of Benefits

It is stated that an average of 1.7 billion gallons of water per day is discharged to the Atlantic and Gulf (PDF p.16) and CEPP will redirect a portion of this. Unfortunately, the report does not provide the number of gallons per day by which discharges will be decreased, instead referring to the amount of water that will be redirected south through flow equalization basins and STAs. Even this amount is not characterized in gallons per day, but as "approximately 210,000 acre feet per year, annual average" - a figure not readily comparable with gallons per day. This point is further confused with the report states that CEPP will capture and annual average of ~79,000 acre feet of water from being lost to tide in the Caloosahatchee (an 18% increase compared to the future without project) and 60,000 acres from the St. Lucie (a 32% increase). Later (PDF p.191), the project is stated to beneficially affect more than 1.5 million acres in the Caloosahatchee and St. Lucie Estuaries, the Greater Everglades, and Florida Bay, and the increase in habitat units afforded by the project is provided. Standard units of measurement should be utilized throughout the report to facilitate understanding of project benefits in quantifiable terms.

The report states that 160,000 acre feet per year will enter Florida Bay, but it is not clear what will become of the other 60,000 acre feet per year that will not travel to the northern estuaries. Will any of this go to aquifer recharge? If so, then this benefit should be stated. The conclusion of the report should introduce those CERP projects that are intended to address the remainder of the 1.7 billion gallons that will not be offset by CEPP.

The TSP is intended to benefit both the St. Lucie and Caloosahatchee Estuaries by decreasing the number and intensity of high-volume releases from Lake Okeechobee, according to PDF page 19. Later (PDF p.133), it is explained that with the TSP, the number of low and high salinity events for the Caloosahatchee will be reduced, and that while the number of high flow events will be reduced in the St. Lucie, the number of low flow events in this estuary will increase. This fact should be pointed out explicitly within the executive summary.

Manatee Considerations

While the TSP will maximize benefits to Florida Bay (PDF p.129), it will reduce water flowing into another important manatee habitat: Biscayne Bay. Any changes in water flowing to Biscayne Bay should be monitored, and impacts to the Bay's ecology reported, since the TSP is estimated to have "negligible to minor adverse effects" on mangrove communities and seagrass beds in Biscayne Bay (PDF p.123).

Annex 1 (PDF p.424) states that deep canals are believed to provide refuge to manatees during cold periods because these canals retain heat for longer periods of time. Will CEPP alter manatee access to any of these canals believed to provide refuge? And will the depth or flow of water in any of these canals change in a way that might decrease their utility by manatees during cold events? If so, contingency plans should be developed with FWC and FWS to rescue manatees observed with cold stress in this system, or otherwise in need of rescue.

Safety features (i.e. grating of culverts) must be maintained not only in those canals known to accommodate manatees, but also those which are capable of providing access to manatees. All personnel who work in these areas should be trained on spotting manatees and assessing possible health concerns such as cold stress.

With regard to seagrass, the report states (PDF p.201) that the goal is to have a stable mixed community of *Thalassia*, *Halodule*, and *Ruppia* in North Florida Bay with decreased coverage of *Thalassia* and increased coverage of *Ruppia*. The reason for desiring *Ruppia* over *Thalassia* is not clear and should be explained.

We will review the USFWS Biological Opinion (being prepared in response to the Corps' "may affect" determination) when it is released in December and provide comment if necessary. Thank you for considering our comments on the Subject PIR.

Sincerely,

Katie Tripp, Ph.D.

Director of Science and Conservation



NATIONAL WILDLIFE FEDERATION

National Advocacy Center 901 E St, N.W., Suite 400 Washington D.C. 20004 202-797-6800 www.nwf.org

October 14, 2013

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Dr. Ehlinger,

On behalf of over four million members and supporters, restoration of America's Everglades is a top priority for the National Wildlife Federation (NWF). In that vein, NWF strongly supports the Central Everglades Planning Project (CEPP) and urges you to complete a final Report signed by the Chief of Engineers as soon as practicable.

Progress on this project would be timely. The longer water is shunted unnaturally to the east and west coasts of Florida, the more degraded the Indian River Lagoon and the Caloosahatchee estuary become. In addition, the historic Everglades ecosystem is starved of necessary freshwater inflows. CEPP was contemplated specifically to speed delivery of a project to fundamentally replumb the River of Grass. The urgency of authorization, funding, construction and implementation of this project cannot be understated.

Even though the planning process for CEPP has been expedient, it has complied with all existing environmental review requirements while allowing for robust scientific inquiry and public participation. This serves as a model for other Corps ecosystem restoration projects.

The Tentatively Selected Plan (TSP) would be a wise investment in an international treasure. The Everglades is both an environmental and an economic driver. By increasing southerly freshwater flows of over 200,000 acre feet, CEPP will restore the historic River of Grass for future generations.

As such, NWF believes a signed Chief's Report for the CEPP Tentatively Selected Plan can and should be delivered to the Secretary of the Army for Civil Works by the end of this calendar year. Thank you in advance for your consideration and for your continued efforts on this important project.

Sincerely,

Malia Hale

Mahatale

Director Protecting and Restoring Coasts and Floodplains National Wildlife Federation GLADES SUGAR HOUSE

cooperative of OST OFFICE BOX 666

33430-0666

BELLE GLADE, FLORIDA

October 11, 2013

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Dr. Ehlinger:

Please accept the following comments on behalf of the 45 grower-members of Sugar Cane Growers Cooperative of Florida on the draft PIR/EIS issued for the Central Everglades Planning Project (CEPP).

The Cooperative's grower-members have a direct interest in CEPP. Our grower-members farm 70,000 acres of sugarcane and an additional 40,000 acres of winter vegetables in the Everglades Agricultural Area that is part of the Lake Okeechobee Service Area (LOSA) for water supply from Lake Okeechobee. The growermembers own and operate the Belle Glade based raw sugar processing facility that is dependent upon our growers' ability to produce our cane supply. This project has ramifications to our existing water supply and creates the potential for water quality violations that in turn could impact our growers. Some of our growermembers have legal standing in the USA vs. State of Florida (Moreno) federal litigation that enforces the conditions of the Consent Decree including the water quality limits outlined in Appendix A for Everglades National Park and Appendix B for Loxahatchee National Wildlife Refuge.

First, we applaud the efforts of the U.S. Army Corps of Engineers and the South Florida Water Management District in their efforts to streamline the planning process through vertical integration of decision making. CEPP represents the most complex set of features in the Comprehensive Everglades Restoration Plan (CERP) therefore proving to be a huge challenge to complete in the expedited schedule. We compliment the team for listening to concerns and attempting to address the concerns of stakeholders throughout plan development. Please accept the following specific comments.

SAVINGS CLAUSE/PROJECT ASSURANCES

As the Corps of Engineer's rightly points out in the draft PIR for CEPP, meeting the Savings Clause requirements of Section 601(h) of WRDA 2000 is a hard constraint. In Section 6.1.1 of the draft PIR, the Corps recognizes that while Lake Okeechobee remains the primary source of water for the LOSA, "the operational changes to the Indian River Lagoon-South suite of projects (different than the approved operations contained in WRDA 2007) is considered a partial water supply source transfer. The transfer would not be implemented until the CERP C-44 Reservoir, the inflow canal to the C-23 Basin and Canal is completed."

More Important is the recognition of the dependency on the Lake Okeechobee Regulation schedule modifications to enable CEPP to convey water south. This regulation schedule modification is necessary to maintain the level of service for water supply for existing legal users dependent on lake Okeechobee, specifically users in LOSA and the Seminole Tribe of Florida.

Dr. Gretchen Ehlinger SCGC Comments on the draft PIR/EIS for CEPP

Table 6-9 depicts the interdependencies among CEPP and non-CEPP features. Deviating from the interdependent non-CEPP features proposed sequencing will upset the requirement to meet Saving Clause provisions for water supply and flood protection and water quality under state law and as implemented by Federal court order. Since the audience for the PIR is much broader than the select group that has followed it closely, it is important to add some additional discussion on the importance of these interdependencies so future readers will be able to understand the significance.

The narrative in the paragraph following Table 6-9, states, "the following outlines one <u>potential scenario</u> for integration of the CEPP features....." The interdependencies are much more than 'potential scenarios' and must be acknowledged as such in the final PIR rather than described as optional. Otherwise it is impossible to be sure about what CEPP is and how all the benefits will be achieved assuming the project is authorized.

WATER QUALITY

Impacts to water quality parameters are expected to occur as a result of diverting an additional 200,000 AF of water from Lake Okeechobee into the Everglades. This could trigger a violation of Appendix A of the Federal Consent Decree and result in more litigation by a party to the case or a third party litigant. The draft PIR recognizes this as an outstanding issue but does not offer up a resolution to Appendix A by way of a modification of the formula, relaxing the limits or dismissing the case as unnecessary in light of the state's program for meeting the strict requirements in the new Clean Water Act permits issued in 2012.

In agreeing to release the draft PIR and act as local sponsor, the South Florida Water Management District Governing Board passed a resolution supporting the release of the CEPP draft PIR/EIS for agency and the publics' review. However, in Section 3 and 4 of the resolution, the Board acknowledged the water quality issues and asked that they be resolved prior to implementing CEPP projects. Issues include the need to revise the compliance methodology of Appendix A of the Consent Decree and also to reach agreement on joint measures which may be needed in the event of an exceedance of Appendix A resulting from a change in operation of a federal project. Failure to develop a mutually agreed upon revised compliance methodology or mutually agreed upon joint measures will preclude the state from implementing, approving or operating CEPP projects. The final PIR should contain an explicit discussion of the Board's resolution and what it means for the implementation of CEPP features in the future.

Further the Governing Board acknowledged that project elements cannot proceed unless/until it is determined that construction and/or operation of the feature: will not cause or contribute to a violation of the permit(s) discharge limits or specific conditions; and reasonable assurance exists that demonstrate adverse impacts on flora and fauna in the area influenced by project element will not occur. This means that the state must meet the terms and conditions of the NPDES permits and state-issued consent order under the Clean Water Act for operations of the Stormwater Treatment Areas for discharges into the Everglades Protection Area including the WQBEL effluent limit. The state and federal parties have mutually agreed to implement the 2012 Everglades Restoration Strategies (ERS) suite of projects with permits issued in September 2012. Further, the state Legislature ratified these projects and dedicated long term funding to implement the suite of projects designed to come into compliance with the WQBEL. The consent order requires the ERS projects to be complete and operational in 2029.

The draft PIR should be clear that construction of CEPP features cannot move forward until this constraint is met.

PROJECT ALTERNATIVE ANALYSIS PROCESS

Clearly, due to the interdependencies of Alt4R2 with non-CEPP features and operational changes, CEPP does not have stand alone benefits that can be discerned in this PIR. The benefits to the estuaries can only be

Dr. Gretchen Ehlinger SCGC Comments on the draft PIR/EIS for CEPP

realized after the C-43 and C-44 reservoirs are built and operational. Then the CEPP plan provides an increment of benefit. Benefits to Everglades National Park in moving water south can only be realized by completing the Modified Water Delivery Project features and operations of the S-356 pump. Based on earlier studies by the Corps and District the Mod Waters Project can provide up to three quarters of the additional water flow into the Park expected with the CEPP.

A better alternative analysis may have been realized by evaluating an operational alternative that stores more water in the Lake and opening the southern end of the system. Only one alternative for north of the Redline was evaluated in the final array of alternatives since deep storage was rejected early in the process due to perceived cost.

ENDANGERED SPECIES ACT REQUIREMENTS

The draft PIR recognizes that CEPP will impact endangered species; however, the USFWS has not completed its Biological Opinion (BO). Therefore we reserve the right to supplement our comments regarding endangered species once the BO is available.

Please accept these comments on behalf of the grower-members of Sugar Cane Growers Cooperative of Florida.

Sincerely,

Barbara J. Miedema

VP- Public Affairs & Communications

BJM:swd

cc: Blake Guillory, Executive Director, SFWMD

Mudven

SFWMD Board members



DADE COUNTY FARM BUREAU

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Ms. Gretchen Ehlinger, Ph.D.
U.S. Army Corps of Engineers, Jacksonville District
Planning and Policy Division
701 San Marco Blvd
Jacksonville, FL 32207

Subject: Comments on the Draft PIR for the Central Everglades Planning Project.

Dear Ms. Ehlinger:

This letter is in response to the notice seeking public comment on the subject report. The Dade County Farm Bureau is the largest agricultural organization in Miami-Dade County with over 800 active members. We have represented the interests of agriculture in this county for over 71 years. Although we are not experts in the Corps planning process or the many technical details discussed in the draft report, there are several points we would like to make with respect to this plan. We have worked with the Florida Department of Agriculture and Consumer Services and we fully endorse their extensively detailed comments on this plan.

Growers in our area have been engaged in federal water project planning since the early 1960s. The changes the Corps made to the South Dade canal system in the 1970s had a direct and negative impact on agriculture. We participated in numerous government processes that eventually led to the authorization of the *Modified Water Delivery Project* in 1989. The project included important elements to correct the problem created in the 70s, especially the S-356 Pump. The most frustrating thing for us has been to see that project flounder; even though important elements, such as S-356, have been constructed for years. The CEPP seems to assume that Mod Waters will never be operational. We feel it would make much more sense to hold CEPP in abeyance until Mod Waters is fully operational, and until you had enough experience with it to clearly define its capabilities. You could then decide what additional work might be needed. To rush CEPP through Congress when you haven't even operated a very similar project that was approved 24 years ago, and which is already built, does not seem like the right thing to do.

Our other big concern is how the L-31N and C-111 canals will be operated in the future. The CEPP model results show an increase in high canal stages in the critical reach of L-31N between Richmond Drive and the Frog Pond. This is clearly not acceptable. Apparently there is some language in the document that says this is due to a problem with the model. No plan should move forward based on a computer model that the agencies think is flawed in one of the most important areas. We suggest getting the model right and then moving forward with a plan you can be confident will work.

The C-111 system is another example where you need to slow down and learn more about what you have already built before you try to approve a complicated plan based on how you think something that is already in place will work. Since 2000 there have been 5 new pump stations and 5 separate impoundments built in the C-111 Basin. Two of

these pumps have been operational for only a single year. There is also a new project in place in the 8.5 Square Mile Area that has not been fully utilized yet, and the final structural element to tie the two areas together is yet to be done. The CEPP plan will put a lot more stress on these features, and the CEPP model has a flaw in how it simulates this area. You need more experience operating this system once it is complete before you propose a major new plan that will place more demand on this untested system. Again, how can we have confidence in this plan when we're not sure how the one you have yet to complete will work?

In the last 15 years we have lost some of our best agricultural land to various Corps projects and much of the land that is left is constantly threatened by root zone flooding due to the operation of the canals. We are now hearing that some of the oldest avocado groves in the area are losing trees to a disease that is often associated with prolonged high water tables. We support projects for the Everglades and have tried to work within your system to make our interests heard. However it is clear to us that protecting property and the economy in South Dade is only an afterthought at best in your rush to do more and more for the Everglades, whether it will work or not.

Please consider slowing this process down to allow time to finish the Mod Waters and C-111 Projects and fully document and understand what they can do before you start a whole new round of changes.

Thank you for considering our concerns.

Sincerely,

George Butler, President



September 19, 2013

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

VIA ELECTRONIC SUBMITTAL: CEPPcomments@usace.army.mil

Subject: Draft Integrated Project Implementation Report and Environmental Impact Statement for the Central Everglades Planning Project Comments

Dear Dr. Ehlinger:

Florida Power & Light Company (FPL) values the cooperative relationship we have had with the U.S. Army Corps of Engineers (USACE) for multiple decades. FPL appreciates the USACE leadership in the coordination and design of the Central Everglades Planning Project to accomplish storage, delivery, and water quality improvement objectives for long-term water supplies in the South Florida region. FPL has performed a review of the Draft Integrated Project Implementation Report and Environmental Impact Statement for the Central Everglades Planning Project and is submitting the following comment.

The Draft Integrated Project Implementation Report and Environmental Impact Statement for the Central Everglades Planning Project, Section 6.1.2.6, Plan Description, Facility/Utility Relocations, states that "Florida Power and Light lines will have to be relocated or abandoned from the area within the A-2 FEB. Florida Power and Light, and Quest Communications lines will have to be relocated where the L-29 is being removed. The removal of Old Taniami Trail will require relocation of the Florida Power and Light line." FPL recommends that coordination with FPL begin as early in the design process as possible to avoid or minimize any impacts to existing FPL properties or infrastructure and to facilitate the implementation of any new infrastructure to deliver power to project facilities.

FPL is willing to discuss this issue with USACE staff to further clarify the observations made in this letter. Please do not hesitate to contact me at Eric.M.Shea@Fpl.Com or at (561) 691-2993.

Respectfully,

Eric M. Shea

Senior Environmental Specialist

Environmental Services

Cc: Florette Braun, FPL Agnes Ramsey, FPL

Florida Power & Light Company



FLORIDA WILDLIFE FEDERATION

Affiliated With Autional Wildlife Sederation

Manley K. Fuller, III, President 2545 Blairstone Pines Drive, Telfahaasee, FL 32301 Post Office Box 0870, Talfahaasee, FL 32314-0870 Phone: (850) 656-7113 Fax: (850) 942-4431 website: www.fwfonline.org

Oct. 15, 2013

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Email: ceppcomments d usace army mil

Dear Dr. Ehlinger et al.:

The Florida Wildlife Federation appreciates the opportunity to participate in the workshops held to develop the Central Everglades Planning Project and, now, to comment on the Draft Integrated Project Implementation Report and Environmental Impact Statement.

The Central Everglades Planning Project (CEPP) is the first to address restoration within the Central Everglades by moving water from Lake Okeechobee into Everglades National Park (ENP). The fast-track process used in developing the Tentative Selected Plan (Alternative 4R2) was transparent, open and FWF members welcomed the opportunity to engage staff members of the Army Corps of Engineers and the South Florida Water Management District in discussing details. The process forced timely decisions. It remains our hope that, notwithstanding the government shutdown that began Oct. 1, 2013, a Chief's Report can be readied and presented to Congress by Dec. 1, 2013, meeting a deadline set in the Senate-passed Water Resources Development Act for obtaining authorization for CEPP and four pending projects stemming from the Comprehensive Everglades Restoration Plan adopted in 2000. Once authorized, the CEPP can proceed to the design stage, while construction of precedential projects is implemented.

We consider the following projects to be precedential:

- Beginning construction on the Flow Equalization Basins and expanded Stormwater Treatment facilities laid out in the South Florida Water Management District's (SFWMD's) Restoration Strategies Plan to meet water-quality standards required by two court orders, state and federal law;
- Constructing an additional 2.6 mile, Tamiami Trail bridge as identified in the Department of Interior's Next Steps Project to increase the flow of water into Everglades National Park's Northeast Shark River Slough (NESRS); and raising

the Tamiami Trail roadbed to 8.5 feet NGVD, which allows water levels to rise in the adjacent L-29 canal;

- Removing an old Tamiami Trail road bed and clearing vegetation that currently impedes the flow of water into Everglades National Park (ENP) that is released through existing culverts and/or new bridges; and
- Completing the C-111 South Dade Project to connect the Frog Pond detention areas (Contract 8) and plugged L-31W (Contract 9) with the C-111 Spreader Canal to restore water flows to Florida Bay via Taylor Slough.
- Developing operational plans for integrating South Miami-Dade projects before
 or as they come "on line."

FWF acknowledges and recognizes the assurances that the "savings clause" of the Comprehensive Everglades Restoration Plan (CERP) adopted by the Florida Legislature and Congress in 2000. CEPP is a component of CERP and then-existing levels of flood protection and water supplies for utilities, agriculture, industry and commerce must be maintained.

We will continue to work diligently with ACOE, SFWMD and other Federal and State natural agencies to sequence appropriately the implementation of CEPP and CERP projects so that the ecological restoration benefits, sought throughout the greater Everglades, are met. Adjustments in the design stages of CEPP projects may be warranted, and it is readily apparent that operating plans and regulatory schedules will need to be adjusted as new projects come on line.

FWF agrees with our colleagues in other environmental organizations that the uncertainties inherent in projects with the scope of the CEPP and the years required to implement can be managed utilizing existing review processes. Uncertainties should be identified and acknowledged but should not become justification for stalling authorization or delaying substantial ecosystem benefits achievable within the next 10 years.

The following are comments specific to the Draft Integrated Project Implementation Report and Environmental Impact Statement, Central Everglades Planning Project (CEPP):

Environmental Water Supply and Habitat:

The Tentatively Selected Plan (TSP) proposes to convey, clean up, and release an additional 210,000 acre feet of water from Lake Okeechobee into the Water Conservation Areas (WCA) allowing it to flow south in a shallow sheet. Such sheet-flow was a distinguishing characteristic of the historic Everglades. It was disrupted by the canals and impoundments of the Central and Southern Florida Flood Control Project. The Comprehensive Everglades Restoration Plan to reestablish sheet-flow is a modification of that 1948 project and the Central Everglades Planning Project is a component of CERP.

Restoration of sheet-flow in WCA-3A is facilitated by redirecting water discharges from STA 2 into the L-6 and L-5 canals for release into WCA-3A through a series of gated culverts and spillways. Additionally, in the northwest corner of WCA-3A, sheet flow will be encouraged by the removal of 2.9 miles of the L-4 levee. The Miami Canal will be filled from a point 1.5 miles south of the S-8 to Interstate-175 (Alligator Alley). Changing the flow of water, inevitably changes habitats and the mix of fish, birds and wildlife those habitats support.

The Florida Wildlife Federation and the Florida Fish and Wildlife Conservation Commission (FWC), which manages the conservation areas, are concerned about current high-water levels and projections that extended high water stages will be detrimental.

The existing conservation areas are impoundments that lack adequate discharge capacities to prevent excessive ponding during wet periods. As shown in Table 5.2.1 "Environmental Effects of Alt 4R and Alt4R2:Hydrology" in the CEPP Draft PIR and EIS, the tentatively selected plan decreases water stages by one to six inches in WCA-2A and -2B, but increases water levels in WCA-3A. In the northwest section of WCA-3A water rises six to nine inches, in the northeast section by five to six inches. Rehydrating northern WCA 3-A is an explicit, desirable goal of CEPP in order to increase the accretion of peat in an area, which has seen substantial losses as a result of oxidation and fire. As Tables 5.2.7 and 5.2.8 show, increasing water levels significantly reduces the number of fire closures in WCA-3A but the number of high-water recreational closures increases significantly. That does not suggest a sufficient "flow-through system" of water management will be achieved. We believe FWC's recommendations regarding water stages and duration should be evaluated and appropriately applied.

Driven by seasonal rainfall patterns, the historic Central Everglades thrived on the rise and fall of flowing water. That regime remains vital to restoring and maintaining the mosaic of landscapes typical of Central Everglades habitats. If the rate of recession is slowed and the length of the winter dry-out cut short, critical forage and breeding habitat for birds and wildlife are modified or lost. Prolonged inundation can be just as deadly to wildlife and lacks the velocity to rebuild tree islands or reestablish the characteristic ridge and slough landscape. FWC'S specific proposals for water depths and duration should be considered, analyzed and appropriately integrated into CEPP design and operational criteria.

To achieve the benefits sought by CEPP, water must flow through the conservation areas; the outflow capacity planned and designed into CEPP must be sufficient to keep pace with the inflow of water. Until outflow and inflow capacities can be balanced, the FWF suggests additional water be introduced incrementally, the impact on fish, bird and wildlife habitats continuously monitored, and timely adjustments be made as needed to maintain flow and reduce harmful ponding in the southern WCA 3A. We believe such an approach is in keeping with the principles of "adaptive management." Periodically it may be necessary to facilitate partial dry-outs to moist soil conditions with water levels at or slightly below soil levels. Accordingly, the adoption of new regulation schedules and operating protocols should take place before construction is completed.

Tree islands are a unique and vital Everglades habitat critical to the preservation of terrestrial wildlife. They occur as willow strands, tropical hardwood hammocks and bayheads of swamp forests with mixtures of other brushy species such as pond apple. Alligators build their nests on them. The islands and existing levees provide refugia during high-water period for deer, bobcats, marsh rabbits, raccoons. Gladesmen have vivid memories of the prolonged high-water events of 1957-58, 1966, and 1982 that resulted in massive deer kills. Not all of those high-water events are included in the "period of record" used in CEPP modeling. Nevertheless they attest to the importance of preserving natural tree islands and the construction and planting of "new" islands. Both provide refugia for wildlife and become oases for migrating and resident species of birds. *FWF supports retaining and preserving the 22 of these constructed tree islands adjacent to the Miami Canal as a needed conservation element.*

Blue Shanty Flow Way and Levee/Berm, new L67 D, will "train" water south into North East Shark River Slough (NESRS) of Everglades National Park but the size, and configuration of the levee will need to be adjusted to achieve maximum restoration benefits and done so that it benefits restoration objectives with Conservation Area 3B including preservation and enhancement of tree islands and ridge and slough habitats. The proposed 8 miles of the existing L67-C levee and 4.3 miles of the L-29 (Miami Canal) levee would also be removed to increase water flow into the NESRS.

FWF remains committed to feature refinements during the design process to improve ecological connectivity and assure the successful implementation of CEPP. One refinement to the Blue Shanty feature that we think worthy of evaluating during the design stage is to construct a curving berm/levee reflecting actual flow patterns and preserving significant, natural tree islands to the north. Another is to substitute a weir or weirs for one or more of the gates proposed to funnel water from WCA-3A into the Blue Shanty and to ensure the detrimental ponding in southern WCA-3A is reduced. If gates remain the preferred alternative to release water into the Blue Shanty flow way, FWF proposes they and the S-12 gates be telemetrically automated so they can quickly be adjusted to deal with real-time flows. Currently ACOE personnel drive from Clewiston to open, shut or adjust the S12 gates. During hurricanes, tropical storms and even "normal" rainy seasons, this is inefficient and precludes quick action when water levels in WCA-3A rise suddenly.

Debate continues among environmental organizations, ACOE, and various natural resource agencies over the size, exact location, etc. of the proposed Blue Shanty levee/berm (L67-D). Environmental organizations argue that were the structure breached and water released, it would flow into the main body of WCA3-B posing no danger to urban or other developed areas to the east. A discussion in Appendix A-Annex A at 3.2.2 - WCA-3B Design Considerations, appears to discount the risk of a breach and overtopping of the L-29 (Miami Canal) levee even with higher-water levels in WCA 3-B. Controlled gates moving water from WCA 3A, the Blue Shanty flow-way and the main body of WCA 3B are also cited as providing a measure of safety. Were a weir or weirs to be substituted for controlled gates, another assessment would be required. *The FWF suggests that the sizing of the levee/berm be determined during the design stage when*

the L-67D levee/berm may be seen as serving multiple functions and the risk of failure is weighed against the potential damage. We believe any damage would be minimal.

Endangered Species and Affected Resources:

Despite deteriorating conditions in the water conservation areas during the last 40 years, the mosaic of habitats – sloughs, ponds, ridge and slough, upland tree islands, wet prairies, canals and levees -- continues to support significant wading bird colonics, fish populations, migratory birds, terrestrial and semi-terrestrial wildlife and their prey. Some 24 federally listed endangered, threatened and candidate species exist within the CEPP project area and potentially could be affected.

The Florida panther and indigo snake will be impacted by the modifications or loss of habitat as it transitions from upland to wetland habitats occur. For the Everglades snail kite, which eats only apple snails, more shallow water wetland suggests greater foraging opportunities. The Eastern indigo snake inhabits EAA agricultural fields, and despite the eventual construction of two flow-equalization basins, there will be a large area of agricultural fields and native uplands to sustain that population.

During construction of CEPP projects, FWF supports ACOE recommendations in the CEPP Biological Assessment (Annex A, Sections 7 an 8) to require contractors to minimize adverse impacts by following applicable species guidelines and conservation measures, developed and published by the U.S. Fish and Wildlife Service (FWS).

The Cape Sable Seaside Sparrow (CSSS) is the most likely species to be adversely affected by implementation of CEPP. The bird relies exclusively on short-hydroperiod freshwater marl prairies east and west of ENP's Shark River Slough and along the eastern edge of Taylor Slough, in the southeastern ENP, It feeds on soft-bodied insects from low lying vegetation and avoids open-water sites. Changes in water flows are deemed to have contributed to its precipitous decline. In evaluating CEPP impacts on the six residentsubpopulations of the sparrow, the ACOE is using a performance measure that calls for a nesting window of 60 consecutive dry days (ground water below 6 feet NGVD) beginning March 15 and two "ecological targets." The first, for CSSS subpopulations on the west edge of the Shark River Slough, drops water levels to less than 7 feet NGVD by December 31 to ensure nesting-season water levels reach 6 feet NVD by mid-March. That's a level below ground. The second establishes a three-to-seven month hydroperiod in sparrow habitats to maintain marl-prairie vegetation. Tested against 40 year period of record, the nesting windows were met only for two subpopulations and the dry-season targets were met only in 20 to 25 of those years. (Appendix C.2.1, figures C.2.1-19 and C.2.1-20) The tentative selected plan, Alternate 4R2 was not among the four alternatives tested. The ACOE has sought a "Section 7 consultation" with U.S. Fish and Wildlife Service.

The FWF supports the ACOE's proposals to monitor sparrow nesting and foraging habits intensely to identify what correlations exist to changes in the water regime and to explore mitigation measures potentially offsetting adverse effects. (Annex A, CEPP Biological Assessment, Section 7).

The hydrologic changes called for in TSP 4R2 have been designed to improve conditions and forging opportunities for wading birds in the conservation areas and Everglades National Park. It should not become necessary to sacrifice substantial benefits for wading birds, some of which are threatened or endangered, in order to protect another endangered species. Incorporation of multi species recovery objectives into CEPP and other CERP project's implementation through the USFWS consultation process is needed.

Recreational Opportunities:

South Floridians who camp fish, boat/airboat, hunt in the conservation areas, often refer to them as "Florida's Everglades" or by the name used by the Florida Fish and Wildlife Conservation Commission (FWC): the Everglades and Francis S. Taylor Wildlife Management Area. FWC has managed WCA-2A, -2B, -3A and -3B since 1952. Adjacent to the urban southeast coast, those areas and lands owned by the SFWMD and state of Florida bordering Everglades National Park are readily accessible and heavily used and enjoyed by the public for fishing, hunting, frogging, nature observation and a variety of other forms of outdoor recreation.

The Florida Wildlife Federation thanks the CEPP Project Delivery Team for its concerted effort to maintain access and enhance recreational opportunities. The added parking, boat ramps, fishing platforms, shelters and toilets – all compliant with the Americans with Disabilities Act -- planned are welcome.

The L-67 Everglades canals separating WCA 3-A and WCA 3-B consistently record the state's highest catch-rates for largemouth bass. *FWF and other recreational organizations active in the region are eager to expand that renowned fishery into the L-29 (Miami Canal) and WCA-3B and offset fishing opportunities that will be lost by the filling parts of the Miami Canal.* Fishing access from Broward County's Holiday Park into WCA 3-B also ought to be provided. Construction of the Broward Water Preserves, currently awaiting congressional authorization, will dramatically improve the quality of water discharged from Broward into the conservation areas.

Current recreational activities in the conservation areas and storm-water treatment areas include fishing, air-boating, boating, hunting, bird-watching, nature photography, cycling, hiking and star gazing. CEPP focuses on water flows and improving the ecological connectivity of the Everglades systems that sustain such outdoor recreation, so it's worth noting that recreation is now a major driver of South Florida's tourist economy. According to FWC studies, the Everglades Wildlife Management Area alone generates \$31 million annually in spending and supports some 700 local jobs. The continued use and enjoyment of the Central Everglades area for sustainable outdoor recreation including fishing and hunting is important to Florida Wildlife Federation and allied sporting conservationist's

The rehydration of WCA-3A will help maintain tree islands and rebuild the characteristic ridge-and-slough Everglades landscape. Tree islands are identified as a key attribute of a healthy Everglades landscape but half of those existing pre-drainage have since been destroyed by erratic water management allowing oxidation of the soil killing roots and leaving the trees vulnerable to toppling. Dry-season fires have also diminished the

islands. Commendably the *TSP preserves 22 of the FWC's constructed and planted tree islands along the Miami Canal in northern WCA-3A*; efforts are underway to identify significant natural tree islands for preservation as well.

Rehydration also cuts by half the number of fire closures in the conservation area, albeit the number of high-water closures increases, adversely affecting deer and other wildlife that require dry ground during their life cycle. Deer are indigenous to the mosaic of Everglades habitats. Alligators, turtles and snakes require dry nesting sites. Wading birds and other tree or shrub nesting birds rely on tree or shrub dominated islands. To do well as the Everglades is restored, mammals and reptiles require refugia that is protected from flooding during high-water events. Wading birds require shallow water foraging habitat. We support programs to construct and plant additional tree islands and perimeter levees to provide habitat to benefit wildlife that require "Everglades uplands" in their lifecycles.

FWF also supports retaining the buggy bridge at S339 over the Miami Canal, unless the fill to be put into the canal is sufficiently compacted to sustain the weight of crossing vehicles. This will allow continued traditional recreational access important to Glades hunters and anglers.

Estuaries, Florida Bay and Biscayne Bay:

Restoration of the northern estuaries will be aided by the diversion of 210,000 acre feet of water from Lake Okeechobee as provided in the TSP and construction of the long-delayed C-43 (Caloosahatchee Reservoir, which awaits congressional authorization) and by completion of the C-44 (St. Lucie/South Indian River Lagoon watershed projects. Alt. 4R2, plus increased water-storage in the Kissimmee River Valley, reduces the risk of damaging wet-season releases to the Caloosahatchee by 14 percent and St. Lucie/Indian River Lagoon by 34 percent.(CEPP Draft PIR and EIS, Table 5.2.1). These projects are beneficial but to fully address the question of large discharges of nutrient rich fresh waters into the northern estuaries from the Lake Okeechobee basin requires CEPP, C43, C44 completion, and additional future storage and treatment areas. Dry-season releases are also needed by the Caloosahatchee to retard equally damaging intrusion of salt water upstream. These projects do alleviate some of the damages to those estuaries. Important elements of restoration of the northern estuaries depends on constructing the long-delayed C-43 (Caloosahatchee Reservoir, which awaits congressional authorization) and completing the C-44 (St. Lucie/ South Indian River Lagoon) watershed projects).

CEPP's features restoring ecological connectivity among WCA-3A, WCA-3B, Everglades National Park and Biscayne National Park ought to improve estuarine conditions and fisheries habitat in Biscayne Bay and Florida Bay. This should benefit salt-water fishing opportunities in the Everglades National Park and the Florida Keys. However the combined discharges to Central and Southern Biscayne Bay, while increasing by 15 percent are described as a "minor to moderate adverse effect" in the Draft PIR and EIS (Table 5.2.1). Average annual canal discharges to northern Biscayne Bay are reduced by 11 percent, and in Florida Bay there is only a "moderate improvement" of 9 percent. It is unclear why and should be further explained within 5.2.8 – Hydrology section.

While remaining attentive to flood protection in Miami-Dade County, equal attention must also be paid to sustaining freshwater flows to Biscayne Bay, the linkage between the CEPP and the Biscayne Bay Coastal Wetlands Project, and the vitality of Biscayne National Park, any one of which would be severely damaged by a decrease in the flow of freshwater. Southern Biscayne Bay remains a productive fishery, supporting commercial and sports fishing. Organisms of the near-shore nursery, which include pink shrimp, require salinity ranges between 20-35 ppt to thrive. A decline of those organisms (the food web) would be a severely negative ecological impact with far ranging effects on grass beds, shell fish, fish and higher order species, possibly including manatees and American crocodiles as well as compromise popular salt water fishing areas.

The SFWMD has established water reservations to protect the flow of canal water required by the Biscayne Bay Coastal Wetlands Project. The district this year also updated the Water Supply Plan for the region's public water utilities. The latter identifies usage, flow and facility needs. Implementation of CEPP and regional CERP projects are expected to enhance and protect the urban and agricultural water supply.

Urban and Agricultural Water Supply Benefits

Restoring the flow of water to the Central Everglades is wholly consistent with the CERP goals and proposed CERP projects. The geology underlying southern Miami-Dade is extremely porous and ground water flows are large enough to be deemed sufficient to protect Biscayne National Park, Biscayne Bay, and irrigate South Dade farmland. That does not allay the fear of users that supplies are inadequate and deliveries ill-timed.

As water moves south along the eastern border of ENP seepage controls must be in place to prevent flooding of farmlands and suburbs of Miami-Dade County. Because of the porous rock underlying those areas and the rapid flow of ground water, it is important to recognize that "flooding" in this region, more often refers to rising ground water than to an above-ground overflow. The "South Miami-Dade Conveyance" system must operate efficiently to keep water in ENP and direct it through Taylor Slough into Florida Bay.

FWF supports increasing the capacity of the S-356 pump station and installation of a seepage cut-off wall south of the Tamiami Trail. Seepage barriers have been used successfully for many years in southern Florida. FWF has followed the testing of the current pilot project. Although the first attempt to install a shallow wall failed, the latest wall is larger, deeper and employs a different slurry mix. Initial findings are good, and final results will be reported in December. The depth of a seepage wall is an important variable in determining its impact on surface and ground water flows. Ample time exists to redesign or install a sheet-metal wall. It is a misconception that seepage barriers cut off all water flows; the walls serve specific, limited purposes.

In commenting on the need to complete the precedential projects, we also called attention to the necessity of connecting Frog Pond detention areas of the Modified Waters Delivery project to the current C-111 spreader canal.

Conclusion:

CEPP planning, including public participation, modeling to assess proposed features, and publication of the draft PIR has been a tremendous undertaking. Implementation of the plan and projects will be no less daunting. The tentative selected plan (Alt 4R-2) represents a consensus of what should and can be done as well as today's sense of what's achievable. At \$1.748 billion the cost provokes sticker shock, but can be amortized over 30 or more years that implementation will take. The cost will be shared between the state and federal governments. It is consistent with other projects of similar scope. The value of the CEPP is that it provides direction for the next generation along with explanations of what decisions were made and why.

There is general agreement that projects must be prioritized; there is less agreement about which to prioritize, other than recognition of the fact that CEPP successful implementation rests on the completion of precedential projects and the requirement to achieve a basic water-quality standard that has not changed in 25 years.

The CEPP Draft PIR addresses and successfully balances many interests and hews to both the goals and performance measures outlined in CERP. The Florida Wildlife Federation believes steady progress has been made toward restoration, embraces and supports CEPP's focus on the importance of moving water through the Central Everglades. The Federation will continue its efforts to expedite Everglades Restoration knowing that its costs are not beyond America's means and can be managed long term.

Sincerely,

Marley Fulle Manley K. Fuller

Florida Wildlife Federation

Martin County Chapter of the Florida Native Plant Society * PO Box 233 * Stuart, FL 34995-0233

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232–0019 Telephone: 904–232–1682

E-mail: ceppcomments@usace.army.mil

The Board of Directors of the Martin County Chapter of the Florida Native Plant Society wishes to offer comments on the draft CEPP draft PIR process.

Thank you for the rapid process for sorting out the many criteria and potential solutions to find the best way forward in restoring the central Everglades area. Both the Army Corps and South Florida Water Management District personnel, as well as representatives of other agencies, and stakeholders, worked diligently to get the work done in half the time.

The speed is appreciated. We hope that CEPP can be authorized with the WRDA bill working it way through Congress now. Those of us living along the St Lucie and Indian River estuary know that the projects and solutions encompassed in CEPP will lead to a better, cleaner river and lagoon.

This is the next step needed to compliment the CERP-Indian River Lagoon-South plan that was authorized previously. As this summer's rains and the resulting blue green algae made clear, the river and lagoon need help ASAP. The pace of spending and construction needs to match the speed of the planning model you have set before us. It pains us to see that the CEPP building process might take TEN (10) years! The plan needs to be implemented faster. That is our main complaint.

We will call upon Congress, State Legislators and the Governor to pick up the funding pace as the denizens of the river are struggling to survive. If the ACE and SFWMD can get planning done in two years, our legislators need to get the political will to fund what is required to repair the damages done as best as possible, as soon as possible.

We recognize that there is a needed "next" next step to fully free our estuaries from the onslaught of dirty water during heavy rainy seasons, that is a connection from Lake Okeechobee through a flowway solution so that the water flows naturally out of the lake to the soon-to-be Central Everglades natural areas.

We hope the potential for a flowway directly out of Lake Okeechobee will be next on your planning plate. We look forward to participating in those workshops.

Sincerely, Joan Bausch, Conservation Chair, Martin County Chapter of the Florida Native Plant Society



Florida Crystals Corporation

One North Clematis Street Suite 200 West Palm Beach, FL 33401

William F. Tarr Vice President P: 561-366-5157 F: 561-651-1280

October 15, 2013

VIA E-MAIL AND U.S. MAIL

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, Florida 32232-0019

> Re: Draft Integrated Project Implementation Report and Environmental Impact Statement for Central Everglades Planning Project

Dear Dr. Ehlinger:

I am writing to provide comments of Florida Crystals and its affiliates, including Okeelanta Corporation and New Hope Sugar Company, on the Draft Integrated Project Implementation Report and Environmental Impact Statement ("Draft PIR/EIS") for the Central Everglades Planning Project ("CEPP"). This is our fifth comment letter on the CEPP, and to save space, we hereby incorporate and reiterate our previous comments dated January 20, 2012, March 30, 2012, October 16, 2012, and January 4, 2013.

Florida Crystals remains committed to Everglades restoration. For two decades, Florida Crystals and other farmers in the Everglades Agricultural Area ("EAA") have worked to reduce phosphorus in farm runoff by implementing on-farm Best Management Practices, contributing hundreds of millions of dollars toward the construction and operation of Stormwater Treatment Areas ("STA's") by the South Florida Water Management District ("SFWMD"), and cooperating in land swaps with the SFWMD to facilitate restoration projects.

While we support the Corps' efforts to formulate long-term restoration plans such as the CEPP, there are important projects

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which the Corps can and should implement now. In particular, the Corps should implement the Modified Water Deliveries Project by increasing water deliveries to Northeast Shark River Slough using newly-built water management features; speed efforts to rehabilitate the Herbert Hoover Dike around Lake Okeechobee to allow for more water storage in the lake; and implement projects designed to address the needs of the Northern Estuaries, specifically, the Indian River Lagoon and C-43 Reservoir Projects. The formulation of long-term plans such as the CEPP should not distract the Corps from completing projects already underway or approved by the Chief of Engineers.

Florida Crystals supports the concept behind the CEPP, which is to send excess, unneeded water from Lake Okeechobee south to the Water Conservation Areas ("WCAs") and Everglades National Park. It should be possible to do this without adversely affecting existing legal water users and by using land already owned by the government in the EAA.

The Draft PIR/EIS makes clear that the CEPP remains a work-inprogress. There remain several critical substantive issues that the Corps and SFWMD must resolve before the CEPP is finalized. Those issues include:

Water Quality: Based on information contained in the annual South Florida Environmental Reports published by the SFWMD and other Corps reports, EAA farmers and the SFWMD already have achieved 97% of the phosphorus concentration cleanup targets for EAA runoff to the Central Everglades (WCA-2 and WCA-3), from approximately 184 ppb twenty years ago to approximately 18 ppb today. The State of Florida and EAA farmers are implementing a plan to achieve the final 3% of the cleanup goal. Nevertheless, the phosphorus concentration targets are set so low that the current CEPP proposal to send new Lake Okeechobee water to the WCA's will be severely constrained. In particular, it is certain that the additional flow into Everglades National Park will trigger a violation of the criteria contained in Appendix A to the Consent Decree in US v. SFWMD, Case No. 88-1886 (S.D. Fla.). This will prevent the delivery of additional water to the Central Everglades, and will limit the State's ability to approve the CEPP under Florida law. The Draft PIR/EIS does not resolve this problem related to Appendix A, but instead only identifies a process to discuss it. The Corps and SFWMD need to resolve this issue before finalizing the plan so that the CEPP can be approved and

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implemented without the prospect of additional court action by third parties.

Water Supply: Existing legal users around Lake Okeechobee have far less water supply than they had when the Water Resources Development Act of 2000 ("WRDA 2000") was signed into law. The CEPP apparently will lock-in that reduction in water supply for the foreseeable future in violation of the WRDA 2000 Savings Clause. Even applying the Corps' approach to water supply accounting, the Draft PIR/EIS indicates that the current CEPP plan will not be able to replace water supply reserved for the existing legal users in the Lake Okeechobee Service Area that is being transferred due to water quality issues in the lake that likely will prevent the inter-basin transfer of runoff from the C-23 canal. The Corps and SFWMD need to address this issue before finalizing CEPP to avoid a violation of the Savings Clause.

<u>Lake Okeechobee Regulation Schedule</u>: A critical element to improving performance of the Central and Southern Florida Project ("C&SF Project") is modifying the Lake Okeechobee Regulation Schedule. The Draft PIR/EIS admits that the regulation schedule must be revised to implement the CEPP, but it fails to develop those revisions. The Corps needs to provide more information on the necessary revisions to the Lake Okeechobee Regulation Schedule before approving and implementing the CEPP.

Modified Water Deliveries Project: In WRDA 2000, Congress prohibited any appropriations for the decompartmentalization of the WCAs until the Modified Water Deliveries Project is completed. The agencies are close to finishing construction on Tamiami Trail improvements, but the Draft PIR/EIS indicates that they have no plans to complete the project by implementing an operational plan to deliver significant new flows into Northeast Shark Slough. The Modified Water Deliveries Project should be fully implemented, and soon, irrespective of CEPP. Nevertheless, since the Modified Water Deliveries Project will not be completed before the proposed initiation of the CEPP, there will be no federal appropriations for the CEPP features in WCA-3. The Corps needs to commit to completing the Modified Water Deliveries Project in the near future - in other words, put the newly-constructed features into operation to modify the deliveries of water into Everglades National Park or the CEPP cannot be implemented.

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These substantive problems with the current CEPP plan are linked to the flaws in the process by which the plan was developed. In the agencies' rush to develop a plan, they have cut too many corners on critically important issues. For example:

- The Corps has not acknowledged that it is making major changes to the Comprehensive Everglades Restoration Plan. The proposed CEPP plan abandons projects in the EAA identified in the 1999 Approved CERP Plan and abandons some of the goals of improving water supply for human users. Even if the Corps believes that such changes are appropriate, it should reveal and discuss those changes and engage all stakeholders in that decision. Instead, it is rushing through a Project Implementation Report which purports to just implement the 1999 Approved Plan when in fact it is changing that plan in important ways.
- The Corps has not considered any alternatives north of the WCAs. NEPA requires agencies to consider a range of alternatives to highlight the choices being made. We proposed several alternatives north of the "redline" which the Corps could have included in the Draft PIR/EIS, some of which could save hundreds of millions of dollars and allow the CEPP to be implemented more quickly. The Corps has refused to evaluate them. Even if the Corps does not prefer an alternative proposal, it must at least analyze and disclose such alternatives to members of Congress and the public so that they can make up their own minds.
- The Corps is deferring analysis under NEPA and the WRDA 2000 Savings Clause of critical plan elements. Instead of analyzing all parts of the overall CEPP plan, the Corps is deferring analysis of critical plan elements. In particular, the Corps is deferring the development of operational plans, and is not tackling difficult water quality issues. This means that the agency has not worked through all of the issues yet, and risks encountering unexpected challenges after it commits to the plan.

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It is more important to get the CEPP right than rush through an incomplete plan. The Corps has proposed its new "3-3-3 process" for civil works planning that establishes a framework for developing and approving projects within a three-year planning schedule. This concept offers great possibilities for adding efficiency and predictability to Corps planning. However with the CEPP, which seeks to combine several large and very complicated plans into a single process, the Corps sought to rush the project through in eighteen months. The goal was laudable, but unrealistic, and the process has not produced a plan that is ready for the necessary public review (much less Congressional action).

We offer our detailed comments below on the Draft PIR/EIS so that the Corps can correct the flaws in the CEPP and have a solid plan which can be approved by Congress, permitted and operated as proposed. With kind regards, I remain,

Yours truly,

William Tarr Vice President

Florida Crystals Corporation

/jcd

Copy w/encl. (via e-mail) to:

Mr. Daniel O'Keefe, SFWMD Chair

Mr. Kevin Powers, SFWMD, Vice Chair

Mr. Mitch Hutchcraft, SFWMD Board Member

Ms. Sandy Batchelor, SFWMD Board Member

Mr. James J. Moran, SFWMD Board Member

Mr. Juan M. Portuondo, SFWMD Board Member

Mr. Timothy Sargent, SFWMD Board Member

Mr. Glenn J. Waldman, SFWMD Board Member

Mr. Rick Barber, SFWMD Board Member

Mr. Blake Guillory, SFWMD Executive Director

Mr. Ernie Barnett, SFWMD

Mr. Matt Morrison, SFWMD

Mr. Tom Teets, SFWMD

Ms. Kimberly Taplin, USACE

Mr. Steven Kopecky, USACE

Mr. Neal McAliley

Detailed Comments of Florida Crystals on CEPP Draft PIR/EIS

The CERP Programmatic Regulations require that a "Project Implementation Report shall ... [b]e consistent with the Plan and applicable law, policy, regulation." 33 CFR 385.26(a)(3)(i). In particular, the regulations provide that "[p]rior to requesting approval or authorization for the implementation of a project, the Corps of Engineers and the non-Federal sponsor shall ... complete a Project Implementation Report addressing the project's justification [in accordance with WRDA 2000] ... [and] address the factors of relevant State laws, including sections 373.1501 and 373.470 of the Florida Statutes." 33 CFR § 385.26(a)(1); see also Programmatic Regulations Proposed Rule, 67 Fed. Reg. 50540, 50544 (Aug. 2, 2002) (PIRs must "provid[e] information required by the State of Florida for the participation of the non-Federal sponsor"). The Draft PIR/EIS does not sufficiently address the requirements of the Programmatic Regulations, and needs to be revised before the CEPP can be approved.

1. Water Quality

The Corps and other agencies need to ensure that the CEPP plan can be implemented consistent with water quality rules. The CERP Programmatic Regulations provide that a "Project Implementation Report shall ... [c]omply ... with applicable water quality standards and applicable water quality permitting requirements." 33 CFR § 385.26(a)(3)(vi). Florida law prohibits state agencies from approving a PIR unless they "determine with reasonable certainty that all project components ... can be permitted and operated as proposed." Florida Statutes § 373.1501(5)(c). The Draft PIR/EIS does not provide those assurances.

A. Water Quality Based Effluent Limitation ("WQBEL") for WCA's

Discharges from the STAs generally must meet the WQBEL, which prohibits flow-weighted mean phosphorus concentrations from exceeding 13 ppb in more than three out of five years on a rolling basis. Today, EAA farmers and the SFWMD have substantially achieved the phosphorus reductions necessary to meet the WQBEL for discharges from the EAA into the Central Everglades. In particular, STA discharges are projected to achieve 13 ppb for STA-2 and 18 ppb for STA-3/4 with current facilities. A-1 Shallow Flow Equalization Basin, Final EIS, § 4.6.1.2, p. 4-66 (July 2013). The State Restoration Strategies plan, now being implemented, is designed to achieve the final few percentage points of phosphorus reductions.

The Corps proposes in the CEPP to send an additional 210,000 acre-feet of water from Lake Okeechobee to the Everglades. The EAA contributes almost none of the phosphorus in Lake Okeechobee, a point which the final PIR/EIS should acknowledge. This means that the CEPP is sending water to the STAs for which they were not designed with the hope that the additional A-2 Flow Equalization Basin will provide enough phosphorus removal to meet the WQBEL even though the Flow Equalization Basin concept is a new to the phosphorus removal process and how it will actually perform in this task is unknown.

The Draft PIR/EIS indicates that the STA's should meet the WQBEL once the State's Restoration Strategies plan is implemented. § 5.1.9, Table 5.1-3, p. 5-14. Until that plan is implemented, and the role of the A-1 Flow Equalization Basin in phosphorus removal is clearly understood, there is no reasonable assurance that the CEPP can be operated to deliver the

additional lake water as proposed. The Draft PIR/EIS acknowledges that fact, and states that "All features of the State's Restoration Strategies must be completed and meet state water quality standards prior to initiating construction of most CEPP project features." § 6.7.1, p. 6-38; § 8, p. 8-5 (District Engineer Recommendation v: "the binding agreement shall include terms and conditions of cooperation for implementing the Project as set forth ... below... Restoration Strategies Compliance – Recognition that all features of the State's Restoration Strategies must be completed and meet State water quality standards prior to initiating construction of most CEPP project features."); Annex F, p. F-33. Florida Crystals agrees that such a condition is necessary to protect against potential violations of the WQBEL resulting from the delivery of new lake water. We support the recommendation of the District Engineer that this condition be made a legally-binding constraint on implementation of the CEPP. Also, the PIR would be more useful to policy makers and the public if it included the current construction schedule for the Restoration Strategies Project. That schedule indicates a 15-year construction period followed by at least three years to confirm that the WQBEL is being met.

B. Appendix A for Everglades National Park

Independent of the WQBEL, the Consent Decree in *United States v. SFWMD*, Case No. 88-1886 (S.D. Fla.), requires even lower phosphorus levels in federal areas of the Everglades. Appendix A of the Consent Decree, which governs phosphorus levels in water entering Everglades National Park, sets the long-term limit on phosphorus concentrations at 8 ppb in the Shark River Slough in wet years. The methodology for the limit in Consent Decree Appendix A is sensitive to the amount of water released into the park by the Corps, i.e., the phosphorus concentration limit decreases as flow increases. Annex F, p. F-31.

It appears likely that the CEPP will trigger a violation of Appendix A. Since 2007, phosphorus concentrations entering the park have been very close or equal to the Appendix A long-term limit. Annex F, p. F-31. The SFWMD currently is being accused of a violation because phosphorus levels are one-tenth of 1ppb above the Appendix A limit. Increasing flows to the park as part of the CEPP will lower the phosphorus concentration limit even further. At the July 9, 2013 meeting of the South Florida Ecosystem Restoration Task Force, the Corps' project manager for the CEPP stated that there is an "[a]cknowledgement that there is a likelihood of an exceedance due to increased flows into ENP based upon the current Appendix A methodology." See also Draft PIR/EIS, p. ES-8 ("State and federal water managers expressed concerns that the recommended plan may increase the probability of exceeding the compliance limit [in Appendix A]..."); § 6.3.2, p. 6-24 ("The Corps and its federal and state partners recognize that to achieve long-term hydrologic improvement, water quality may be impacted, particularly as measured by the current Consent Decree Appendix A compliance methodology."). The Draft PIR/EIS is written in a way which obscures that problem: despite the fact that the Draft PIR/EIS contains a quantitative assessment of compliance with the WQBEL, the document contains only a "qualitative assessment of Appendix A compliance." Annex F, at F-34. Since the Corps did not actually calculate whether the CEPP would comply with Appendix A, the Draft PIR/EIS concludes that "[i]t is uncertain how changes in flow distributions proposed under CEPP will impact compliance with Appendix A of the 1991 Settlement Agreement." Annex F, p. F-34. This conclusion is not sufficient to demonstrate "reasonable certainty that all project components ... can be permitted and operated as proposed,"

Florida Statutes § 373.1501(5)(c), which is the standard which governs whether Florida agencies can approve the CEPP.

Unlike the WOBEL issue, the Draft PIR/EIS offers no real solution for the problem of Appendix A compliance. The document acknowledges that the problem is the criteria in Appendix A, not the quality of the water that will be delivered to the park. § 6.3.2, p. 6-25 ("The Corps and the state partners agree that the monitoring locations/stations for inflows to ENP will require revision."). Despite this, no actual changes to Appendix A are proposed in relation to the CEPP. Instead, the agencies have only agreed to have meetings between federal and state staff to discuss how to proceed. § 6.3.2, p. 6-25 ("In an effort to ... determine updates to Appendix A ..., the parties to the Consent Decree have established a process and scope for evaluating and identifying necessary revisions to the Appendix A compliance methodology.... Ultimately, such evaluations and changes to the Appendix A compliance methodology would be recommended ... for potential agreement by all parties."). There is no deadline for these discussions to be completed, or for any revisions to Appendix A to be agreed upon. History shows that just because the agencies are talking does not mean that they will reach any agreement: the state and federal agencies have been discussing these issues literally for years, and they are yet to be resolved. Moreover, any modifications to the Consent Decree will need to be approved by the U.S. District Court, and third parties have vociferously opposed in the past any changes to the phosphorus limitations. Appendix A has also been incorporated into state water quality standards approved by EPA, Fla. Admin. Code § 62-302.540(4)(c), and changes to Appendix A may necessitate a formal change to state water quality standards, another lengthy and possibly contentious process. The Draft PIR/EIS therefore identifies a serious obstacle to implementing the CEPP, but no real solution.

The history of the Modified Water Deliveries Project proves out our concerns. That project calls for pumping water from the L-31N canal into Northeast Shark Slough to address increased groundwater seepage from additional water deliveries to that area of the park. The Corps completed construction of the S-356 pump station in 2003 – 10 years ago – to do this. However, the pump has never been permitted or used due to concerns that it would lead to a violation of Appendix A. § 2.5.7, p. 2-16 ("The following MWD features have been constructed or are in progress. ... f. Pump Station S-356 – complete (temporary pump station), no operational permit"). The federal agencies apparently do not expect to ever resolve this issue. In the Draft PIR/EIS, the Corps has refused to include operation of the Modified Water Deliveries Project in the "future without project condition." § 2.5, Table 2-2 ("Future Without Project Condition: ... Construction completed (no operational changes assumed for modeling): MWD..."); Annex C, p. C-25. The Draft PIR/EIS explains that "[t]he FWO project condition describes what is assumed to be in place if none of the study's alternative plans are implemented." § 2.1, p.2-1; see also U.S. Water Resources Council, Principles and Guidelines § 2.1 (FWO represents the "most likely future conditions ... without those plans in place"). Since all of the major construction features of the Modified Water Deliveries Project will be finished by spring 2014, this can only mean that the federal agencies are planning for failure on this project due to water quality issues. Instead of acknowledging this roadblock, the CEPP plan calls for increasing the size of the S-356 pump, without solving the problem which prevents the existing pump from being used.

Florida law prohibits approval of the CEPP by state agencies until this Appendix A issue is resolved. The Draft PIR/EIS politely admits as much: "Failure to develop a ... revised [Appendix A] compliance methodology will impact the state's ability to implement or approve these projects." § 6.3.2, p. 6-25. So that the state agencies can approve the CEPP PIR/EIS, we recommend that the Corps make it a priority and reach an agreement on revisions to Appendix A, and obtain court approval, prior to finalizing the PIR/EIS.

C. Lake Okeechobee TMDL

The proposed CEPP plan calls for backflows of water from the C-44 basin (through S-308) into Lake Okeechobee, in an attempt to offset the loss of water supply for existing legal users in the Lake Okeechobee Service Area ("LOSA"). § 6.8.1, p. 6-46. Without those backflows, LOSA users will lose an important part of their water supply during droughts. This backflow of C-44 basin water is necessary for the A-2 Flow Equalization Basin to operate as planned. § 6.8.1, p. 6-46.

The Draft PIR/EIS indicates that the proposed backflows will violate water quality rules for Lake Okeechobee, specifically, the Total Maximum Daily Load ("TMDL") limitations. § 5.1.9, Table 5.1-3, p. 5-14; § 5.2.9, Table 5.2-2, p. 5-40; § 7.4.2, p. 7-9 to 7-10. Experience indicates that this will prevent the delivery of the water: the Florida DEP rejected a similar proposal a decade ago in relation to the Indian River Lagoon planning process. IRL Final PIR/EIS, p. H-41 (March 2004) ("Issues regarding Lake water quality and TMDLs are currently precluding the delivery of new sources of water to the Lake.")

The Draft PIR/EIS offers no solution for this problem. The document only states that the issue "will be addressed holistically throughout the watershed via the [Florida DEP's] Lake Okeechobee Basin Management Action Plan (BMAP) process. The BMAP is currently under development via a public stakeholder driven process." § 5.1.9, Table 5.1-3, p. 5-12. In other words, the Corps is assuming that the water quality rules will change based on a "process" run by a different agency over which it has no control. This provides no "reasonable certainty that all project components are consistent with applicable law and regulations, and can be permitted and operated as proposed." Fla. Stat. § 373.1501(5)(c). Moreover, if the backflows cannot be "permitted and operated as proposed," then the CEPP will violate the Savings Clause which provides that "the [Corps] and the non-Federal sponsor shall not eliminate or transfer existing legal sources of water" until "a new source of water supply of comparable quantity and quality ... is available." WRDA 2000, § 601(h)(5)(A).

We recommend that the Corps obtain legal authorization for the C-44 basin backflows before finalizing the PIR/EIS, so that the SFWMD can approve the plan under Florida law. We also support the District Engineer's recommendation that there be a "binding agreement" that "[c]onstruction of CEPP project features cannot proceed until it is determined that construction and operation of the feature ... will not cause or contribute to a violation of State water quality standards; and ... will not cause or contribute to a violation of any applicable water quality permit discharge limits or specific permit conditions." Ch. 8, ¶ w, pp. 8-5 to 8-6.

2. Water Supply

A. Savings Clause

The WRDA 2000 Savings Clause provides that "[u]ntil a new source of water supply of comparable quantity and quality as that available on the date of enactment of this Act is available to replace the water to be lost as a result of implementation of the Plan, the [Corps] and the non-Federal sponsor shall not eliminate or transfer existing legal sources of water, including those for — an agricultural or urban water supply." WRDA 2000, § 601(h)(5)(A). Based on that language, the CERP Programmatic Regulations provide that a "Project Implementation Report shall ... [d]etermine ... if existing legal sources of water are to be eliminated or transferred." 33 CFR § 385.26(a)(3)(x). If that will occur, "then the Project Implementation Report shall include an implementation plan that ensures that such elimination or transfer shall not occur until a new source of water of comparable quantity and quality is available to replace the water to be lost as result of the implementation of the Plan." *Id.* § 385.36(a). "Elimination of existing sources of water supply is barred until new sources of comparable quantity and quality of water are available." S. Rep. No. 106-362, *quoted in* Programmatic Regulations Proposed Rule, 67 Fed. Reg. 50540, 50546 (Aug. 2, 2002).

The Draft PIR/EIS fails to contain a plan that ensures that existing legal users will not be harmed by the CEPP. In our previous comment letters, we pointed out how the CEPP proposal would severely reduce agricultural water supply for users in the LOSA, by locking in lowered Lake Okeechobee levels contained in the 2008 Lake Okeechobee Regulation Schedule ("LORS 2008") compared to water supplies available at the time WRDA 2000 was enacted. While we will not repeat all of our comments on this point, we note that the Corps appears to be selectively identifying its sources of authority with regard to the Lake Okeechobee Regulation Schedule to avoid protecting existing legal users as required by the WRDA 2000 Savings Clause. In the Draft PIR/EIS, the Corps asserts that this elimination of water supply is not subject to the Savings Clause because LORS 2008 was an "[i]ntervening non-CERP activit[y] ... wholly outside of CERP." Annex B, § B.2.2, p. B-9. This apparently is based on the LORS 2008 Supplemental EIS's reference to language contained in WRDA 1992 which authorized the review of the C&SF Project and which resulted in the CERP. Lake Okeechobee Regulation Schedule, Final Supplemental Environmental Impact Statement, p. 1 (Nov. 2007) (referencing "Section 310 of the 1990 Water Resources Development Act" as the source of authority for LORS 2008; Congress did not pass a WRDA 1990, but the quoted language was included in Section 309(l) of WRDA 1992). The reference to WRDA 1992 does not avoid the WRDA 2000 Savings Clause, because WRDA 2000 generally governs authorization for Corps' revisions to the C&SF Project after it was enacted in 2000; WRDA 1992 only authorized a "review" of the original C&SF Project, and the proposed revisions to the C&SF Project identified as a result of that review were set forth in the CERP approved in WRDA 2000. Congress also made clear in WRDA 2000 that it approved the CERP as "a framework for ... operational changes to the Central and Southern Florida Project," and the CERP included an operational feature entitled "Lake Okeechobee Regulation Schedule (F)." It is disturbing to see the Corps engage in legal gymnastics to avoid protecting the many existing legal users around Lake Okeechobee.

Even if one just focuses on the operational changes discussed in the Draft PIR/EIS, the proposed CEPP plan is problematic under the Savings Clause and Programmatic Regulations. While the CEPP calls for storing a small amount of additional water in the lake, all of that water is being saved for environmental deliveries to the WCAs. The CEPP explicitly plans to transfer

Lake Okeechobee water relied upon by LOSA users to the WCAs, and replace it with backflows from the C-44 basin. However, as discussed above, the Draft PIR/EIS acknowledges that this will violate the TMDL for the Lake, which will prevent the Corps from delivering the replacement water.

The treatment of this issue is not sufficient under the Programmatic Regulations or Florida law. As discussed above, the Draft PIR/EIS simply assumes that the backflows will be allowed as a result of a future planning exercise which neither the Corps nor SFWMD control. This fails to "ensure" that the "transfer shall not occur until a new source of [replacement] water ... is available," as required by the Programmatic Regulations. 33 CFR § 385.36(a). In addition, Florida law only allows the SFWMD to act as local sponsor of the CEPP if it "[d]etermine[s] with reasonable certainty that all project components are consistent with applicable law and regulations, and can be permitted and operated as proposed," Fla. Stat. § 373.1501(5)(c), and it is obvious that the project cannot be permitted and operated as currently proposed.

To avoid a violation of the Savings Clause, we recommend changes to the Lake Okeechobee Regulation Schedule to replace water lost when LORS 2008 was implemented. We also recommend that the CEPP be modified to make clear that the C-44 basin backflows will not be used to replace existing legal water supply for the LOSA users, but instead will be used to send additional flows to the WCAs. Such a revision would mean that if the Corps is unable to deliver C-44 backflows to Lake Okeechobee, then LOSA water users would be held harmless and there would be no violation of the Savings Clause. This is in addition to the steps we recommend above related to resolution of the water supply issue.

B. Improvements to Agricultural and Urban Water Supplies

One of the purposes of the 1999 Approved CERP Plan was to affirmatively increase agricultural and urban water supplies, not just prevent them from shrinking. The Florida Legislature, in approving the 1999 Approved CERP Plan, directed state agencies to "[e]nsure that project components will be implemented to achieve the purposes ... that include ... providing such features as are necessary to meet the other water-related needs to the region, including .. the *enhancement* of water supplies..." Fla. Stat. § 373.470(3)(b)(2). The Legislature also required the SFWMD to complete a PIR, which "shall identify the *increase* in water supplies resulting from the project component." *Id.* –(3)(c).

Even though the CEPP is the grouping of projects which govern the central part of the state from Lake Okeechobee to Florida Bay, the Draft PIR/EIS indicates that it will not increase water supplies for people at all. § 6.8.6, p. 6-48 ("The CEPP components do not directly provide water to meet other water related needs in LOSA, LECSA 2 [Broward County], or LECSA 3 [Miami-Dade County]."); see also Annex B, § B.4.4, p. B-71. For agricultural water users, the CEPP contains no additional storage in Lake Okeechobee for agricultural supply, and significantly changes the EAA reservoir feature of the 1999 Approved Plan to eliminate agricultural water supply as one of its functions. Under the CEPP, agricultural users will have less water supply than when Congress approved the CERP in WRDA 2000, and less water supply than called-for in the 1999 Approved CERP Plan. For urban water users, the Draft PIR/EIS indicates that the CEPP might generate additional water, but only after "completion of all CEPP project features" and a series of steps which will not occur for many years, if ever.

Annex B, § B.4.4, p. B-71. This is quite surprising, since the CEPP has been sold to the urban communities of Southeast Florida as a solution to their water supply concerns. The communities of people who live in South Florida are being put at the back of the line when it comes to water supply in this plan. We recommend that the PIR/EIS be revised to acknowledge the responsibility to increase water supplies for the people of South Florida and commit to providing that water supply at the time each CEPP component is constructed.

3. Revisions to the Lake Okeechobee Regulation Schedule

The CERP Programmatic Regulations provide that a "Project Implementation Report shall ... [i]nclude . . . a draft Project Operating Manual as an appendix." 33 CFR 385.26(a)(3)(xvi). Operating Manuals are the "operating plan for the operation of the projects of the Plan and other C&SF Project features," and must "[c]omply with NEPA" and "[d]escribe regulation schedules, water control, and operating criteria for a project, group of projects, or the entire system." 33 CFR § 385.28(a)(2), -(6)(ii)-(iii). The reason the Programmatic Regulations require inclusion of a draft Project Operating Manual is so that all stakeholders are aware of how new project features will be used before those features are built. Programmatic Regulations Final Rule, 68 Fed. Reg. 64200, 64212 (Nov. 12, 2003) (discussing changes to proposed regulations to limit Corps' ability to deviate from operational plans contained in PIR).

We have major concerns about the absence of a revised Lake Okeechobee Regulation Schedule in the Draft PIR/EIS. On several previous occasions, we asked the Corps to consider revisions to LORS 2008 in the formulation of the CEPP. A revised regulation schedule is a necessary element of the grouping of projects that make up the CEPP, because the central concept of the CEPP is to divert excess water from the lake to the Central Everglades. In order to do that, not only do the operational rules need to be changed to allow for diversion of water south, but the Corps needs to store additional water in the lake to supply the A-2 Flow Equalization Basin. This provides the opportunity to not only provide more water for the Central Everglades, but also to improve water supply for existing legal users in LOSA and to improve conditions for the Northern Estuaries.

In the Draft PIR/EIS, the Corps finally acknowledges that it must revise LORS 2008 in order to implement the CEPP. *See, e.g.,* § 4.1.3, p. 4-5; § 4.6.2, p. 4-22; § 6.7.1, Table 6-10, p. 6-39. The Corps acknowledges that the triggers set forth in LORS 2008 for revisions to the regulation schedule – certain rehabilitations of the Herbert Hoover Dike and completion of certain restoration projects – will be completed by 2022. § 2.5.2. Indeed, the Draft PIR/EIS assumes that the lake would be managed in ways inconsistent with the LORS 2008. Specifically, LORS 2008 is designed to avoid lake levels over 17 feet NGVD in order to avoid the risk of a catastrophic dike failure. The Draft PIR/EIS indicates that the CEPP will double the number of days where lake levels will exceed 17 feet NGVD (from 34 to 68) and nearly double the number of days when lake levels will exceed 17.25 feet NGVD (from 18 to 29). Annex B, Figure B-32, p. B-48. In other words, the Corps must revise LORS 2008 to implement the CEPP, and must quickly move forward with repairs to the HHD so that more water can be stored in Lake Okeechobee.

Nevertheless, the Corps is refusing to consider and analyze revisions to LORS 2008 in the Draft PIR/EIS. The Draft PIR/EIS does not look at options for revising the schedule or the

impacts of different alternative revisions. Instead, the Draft PIR/EIS contains general language about how the lake would be operated for purposes of modeling, but no detailed operational rules. The document further indicates that the Corps will comply with NEPA regarding revisions to LORS 2008 at an undisclosed later date. § 6.1.1; § 6.7.1, p. 6-41; pp. B-48, Annex C, § 7.1.1, p. C-30 ("Based on the hydrologic modeling conducted for the CEPP recommended plan, it is anticipated that changes to the 2008 LORS will be needed... The CEPP PIR, including the POM [Project Operating Manual], will not be mechanism to propose or conduct the required NEPA evaluation of modifications to the Lake Okeechobee Regulation Schedule, although the CEPP PIR may recommend that revisions to the 2008 LORS be conducted through a separate effort.").

The Corps' failure to set forth the proposed revisions to LORS 2008 in the Draft PIR/EIS violates the Programmatic Regulations, which require the Corps to "include ... a draft Project Operating Manual as an appendix." 33 CFR 385.26(a)(3)(xvi). The draft Project Operational Manual must have enough detail for the Corps to actually operate the completed project, 33 CFR § 385.28(c)(5), "[c]omply with NEPA," id. –(a)(6)(ii), and "[d]escribe regulation schedules, water control, and operating criteria for a project," id. –(a)(6)(iii). The draft Project Operating Manual attached as Annex C, provides no revised regulation schedule for the lake and expressly refuses to comply with NEPA.

The Draft PIR/EIS also violates NEPA. NEPA requires agencies to consider the environmental impacts of their proposals before they approve them, not after. In addition, NEPA regulations require agencies to consider in "the same impact statement" all connected actions, which include actions that "[a]re interdependent parts of a larger action and depend on the larger action for their justification." 40 CFR § 1508.25(a)(1)(iii). The Corps previously has indicated that it would conduct "one comprehensive NEPA analysis for each project in the Project Implementation Report, rather than having piecemeal analyses in each of the supporting documents." Programmatic Regulations Proposed Rule, 67 Fed. Reg. 50540, 50549 (Aug. 2, 2002). The Draft PIR/EIS does precisely what NEPA prohibits, and what the Corps said it would not do.

We recommend that the Corps prepare a final PIR/EIS that complies with the Programmatic Regulations and NEPA, so that the CEPP can be approved. In particular, we ask (once again) that the Corps revise LORS 2008 as part of the CEPP formulation process, and include a complete NEPA analysis in the Final PIR/EIS.

4. Relationship of CEPP to the Modified Water Deliveries Project

The Draft PIR/EIS does not sufficiently address the interplay between the CEPP and the Modified Water Deliveries ("MWD") Project. When Congress authorized the Comprehensive Everglades Restoration Plan in 2000, it provided that "no appropriation shall be made to construct WCA 3 Compartmentalization and Sheetflow Enhancement Project [the heart of the CEPP] until the completion of the project to improve water deliveries to Everglades National Park authorized by section 104 of the Everglades National Park Protection and Expansion Act of 1989 (16 U.S.C. 410r-8)," otherwise known as the MWD Project. WRDA 2000, § 601(b)(2)(D)(iv). Without an appropriation by Congress for the central features of the CEPP – all of the work within WCA-3 – the CEPP will not be implemented.

The purpose of the MWD Project is to increase deliveries of water to Everglades National Park, and redirect most those deliveries to Northeast Shark River Slough. The project originally called for a series of construction features within the park, along Tamiami Trail, and in WCA-3. Since 1989, the Corps and the Department of Interior have reduced the scope of the features considered to be part of the MWD Project, and now propose to include some of the original MWD Project features in the CEPP (e.g., the conveyance features in southern WCA-3A/3B). The construction features left in the redefined MWD Project now are almost entirely built.

Integral to the MWD Project is an operational plan to modify water deliveries to Everglades National Park. § 2.5.7, p. 2-17. The MWD Project was built on the assumption that canal stages in the L-29 borrow canal could be increased to 8.5 ft NGVD, which would allow the delivery of significantly more water to Northeast Shark River Slough. *Id.* p. 2-16. The MWD Project is not complete until the Corps develops and implements a "new water control plan for the area that incorporates the constructed features of the project and higher water levels in the L-29 Canal afforded by the Tamiami Trail modifications." *Id.* p. 2-17.

The Draft PIR/EIS assumes that the MWD Project will not be completed before the CEPP is implemented. In the "Future Without Project Condition," which represents the "most likely future conditions ... without those plans in place" through 2050, U.S. Water Resources Council, Principles and Guidelines § 2.1, the Corps assumes that the new water control plan will not be implemented. See, e.g., Draft PIR/EIS, § 2.5, Table 2-2 ("Future Without Project Condition: ... Construction completed (no operational changes assumed for modeling): MWD..."); § 2.5.11, p. 2-18 ("Since a final operational plan for the MWD Project has not been completed, for planning purposes, the CEPP FWO project condition will assume the 7.5 NGVD operational constraint in the L-29 borrow canal that is associated with ERTP [the current operational plan] will remain in place."); Annex C, p. C-25.

We recommend that the Draft PIR/EIS be revised to better address the interaction between the MWD Project and the CEPP. First, the Final PIR/EIS should make completion of the MWD Project through an operational plan a precondition to initiation of the CEPP. Without such a precondition, the CEPP risks losing federal appropriations for some of its primary features, which will prevent them from being built. The Corps should make completion of the MWD Project its highest priority, because that project can yield immediate ecological benefits to Everglades National Park.

Second, the Final PIR/EIS should include a MWD Project operational plan in its "future without project condition." Since the MWD Project must be completed before the CEPP can be implemented, it properly belongs in the FWO condition.

Third, the analysis in the Final PIR/EIS should be revised to adjust for the inclusion of the MWD Project in the FWO condition. The Draft PIR/EIS assumes that all of the increased flows to the park that would come from the MWD Project are part of the CEPP. See, e.g., Annex B, § B.3.3.1, p. B-65 (identifying "total water made available by the CEPP project" by comparing the "with project condition" to the "future without base condition"). WRDA 2000 provides that "water made available by each project in the Plan" be reserved for environmental use only, but there is no similar provision in the authorization for the MWD Project. Compare WRDA 2000, § 601(b)(2)(h)(2) and 33 CFR § 385.35(b) with 16 U.S.C. § 410-r-8(a). As a

result, the Draft PIR/EIS seeks to reserve those increased flows under WRDA 2000. Since the MWD Project was authorized in 1989, prior to the "Restudy" language in the 1992 WRDA, it would follow that the water reservation provisions of WRDA 2000 are not applicable to MWD Project, and the Corps should not seek to reserve the MWD Project flows as part of the CEPP.

5. Flood Protection

The Draft PIR/EIS does not sufficiently analyze flood protection issues related to the proposed A-2 Flow Equalization Basin. WRDA 2000 provides that "[i]mplementation of the Plan shall not reduce levels of service for flood protection that are – (i) in existence on the date of enactment of this Act; and (ii) in accordance with applicable law." WRDA 2000, § 601(h)(5)(B). Under certain high-water events (e.g., the 50% PMP storm event modeled for the Draft PIR/EIS), the A-2 Flow Equalization Basin could result in flooding of nearby agricultural lands. The Draft PIR/EIS does not provide the detailed design information necessary to determine whether such flooding will occur in violation of the WRDA 2000 provision protecting existing levels of flood protection. We recommend that the Final PIR/EIS include detailed design information necessary to confirm compliance with WRDA 2000, and include additional flood control features as necessary to avoid a reduction in existing levels of flood protection in the EAA.

6. Changes to Overall Comprehensive Everglades Restoration Plan

In previous letters, we have commented that the Corps is proposing significant changes to the Comprehensive Everglades Restoration Plan, and that it should prepare a Comprehensive Plan Modification Report instead of a PIR. The Programmatic Regulations also require PIR's to "[i]nclude a discussion of any significant changes in cost or scope of the project from that presented in the 'Final Integrated Feasibility Report and Programmatic Environmental Impact Statement,' dated April 1, 1999" ("1999 Approved CERP Plan"). 33 CFR § 385.26(a)(3)(xiii). The Draft PIR/EIS fails to do that, and should be revised to discuss the significant changes proposed for the CERP.

The Corps has identified as being part of the CEPP six projects contained in the 1999 Approved CERP Plan, including the "Everglades Agricultural Storage Reservoir (G)." App. C.3 (response to Crystals-2). The 1999 Approved CERP Plan called for that reservoir to have three compartments, one of which "will be used to meet Everglades Agricultural Area irrigation demands only," one which would be "used to meet environmental demands," and the third to meet both environmental and irrigation demands. 1999 Approved CERP Plan, p. 9-9. This was one of the primary means by which the CERP proposed to improve water supply for agricultural users, which is one of the basic purposes of the CERP. Fla. Stat. § 373.470(3)(b)(2) (State approval of the CERP, which includes among the purposes "meet the other water-related needs of the region, including ... enhancement of water supplies").

In the proposed CEPP plan, the agricultural water supply function of the EAA reservoir has been completely eliminated. However, we found no acknowledgement of this fact in the Draft PIR/EIS, much less "a discussion of any significant changes ... of the project from that presented in the [1999 Approved CERP Plan]." The PIR/EIS needs to be revised to explain why the Corps is eliminating improvements to agricultural water supply in the CEPP. This is

especially important since the Corps has refused to modify the Lake Okeechobee Regulation Schedule to maintain more agricultural and urban water supply in Lake Okeechobee.

The proposed CEPP plan also includes some, but not all, features for the Central Everglades which were identified in the 1999 Approved CERP Plan. In our previous comment letters, we pointed out how the CEPP leaves out some projects identified in the 1999 Approved CERP Plan, which suggests that the Corps no longer intends to implement them. *See, e.g.,* App. C.3, p. 723. The history of the C&SF Project is littered with examples of projects authorized by Congress which the Corps never fully implemented. The assertion in the Draft PIR/EIS that the Corps is engaging in an "adaptive assessment strategy require[ing] incremental implementation of the plan components," *id.* p. 685, does not relieve the Corps from explaining whether these project elements of the 1999 Approved CERP Plan remain viable or not. The Final PIR/EIS should explain fully what the overall CERP Plan looks like after the CEPP is implemented.

7. Lack of Consideration of Alternatives

Federal law requires the Corps to consider a range of alternative plans in evaluating a proposed project. NEPA requires federal agencies to consider reasonable alternatives to a proposed action, so that agency officials and the public can clearly understand the choices being made. 40 CFR §§ 1500.2(e), 1502.14. The Programmatic Regulations also require the Corps and SFWMD to "formulate and evaluate alternative plans" in a PIR, and for CERP projects being considered in a PIR, "the project as described in the [1999 Approved CERP Plan] shall be included as one of the alternative plans that is evaluated." 33 CFR § 385.26(b)(2).

The Draft PIR/EIS does not consider any alternatives north of the "redline," which is the boundary between the EAA and WCA-2 and WCA-3. In our previous comment letters, we suggested several alternatives that could be considered, including modifications to the Lake Okeechobee Regulation Schedule; routing of the "new" lake water through the Holey Land and Rotenberger Wildlife Management Areas on the way to the WCAs; and use of the Flow Equalization Basin sites as a deep reservoir or STA. We also expressed concerns that the Corps is building an inappropriate bias into the CEPP study related to water levels in Lake Okeechobee, that the Corps is only considering alternatives that it prefers, and that it is refusing to highlight the tradeoffs between different environmental and economic interests inherent in the Corps' formulation of alternatives. The Corps has completely ignored these comments. The Draft PIR/EIS only considers a single alternative in the EAA – a Flow Equalization Basin – which the document admits will "represent an irreversible and irretrievable commitment of resources." § 6.3.6, p. 6-30. The Draft PIR/EIS also explicitly states that it is will not comply with NEPA regarding revisions to LORS 2008 until some undisclosed later date. Annex C, § 7.1.1, p. C-30. This violates both NEPA and the Programmatic Regulations.

The Corps also has refused to evaluate as an alternative the relevant projects of the 1999 Approved CERP Plan itself. In particular, the Draft PIR/EIS does not consider as an alternative the "Everglades Agricultural Storage Reservoir (G)" project from the 1999 Approved CERP Plan. This clearly violates the Programmatic Regulations, which the Corps itself has stated "make clear that the project described in the April 1999 'Final Integrated Feasibility Report and Programmatic Environmental Impact Statement,' will be one of the alternative plans that will be evaluated." Programmatic Regulations Final Rule, 68 Fed. Reg. 64200, 64218 (Nov. 12, 2003).

We recommend that the Corps revise the PIR/EIS to consider a range of reasonable alternatives north of the "redline" as required by NEPA and the Programmatic Regulations. We continue to believe that the Corps can achieve the goals of the CEPP more quickly and much more cheaply through some of the alternatives we suggested.

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September 13, 2013

Colonel Alan M. Dodd
District Commander
Army Corps of Engineers
P.O. Box 4970
Jacksonville, Florida 32232-0019

Colonel Dodd

Good morning.

Please include this additional comment as a part of the CEPP record.

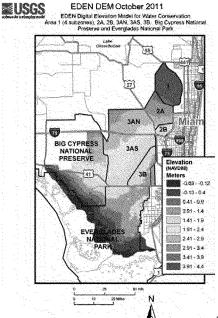
Sincerely

L Jack Moller



The following is an evaluation of <u>Landscapes and Hydrology of the Predrainage Everglades</u> done by L Jack Moller, May 26, 2013.

While the work done to create this book was excellent and very professionally done it was also designed to lead decision makers to believe the proper actions to be taken to restore the Everglades is to push enough water into today's remaining portion of the undeveloped Everglades that would cause today's Everglades to drown and to further be destroyed and not restored. The following information was taken from the works that are cited. Some of these works were also cited by the author of this book. As you read the two document keep in mind the reason for the author to select specific passages, which I will bring into this document, that are designed to create a rationale to but 20% more water than is allowed by today's regulatory schedule, 20% more water than today's flood stage, and to hold this flood water for 40% of the year (146 days). With this amount of flooding, there can be one result and that is the complete destruction of the already drastically reduced upland areas in the remaining Everglades.



(If you want a big picture you can copy and paste into a word document and then enlarge the map.)

To help the reader follow the discussion that follows the above map is being provided.

To help the readers understand what the Everglades was really like I have taken the time to cut and paste the following information taken from the works that are cited. As you will see the Everglades, was not deep water, was not all sawgrass, had thousands of islands in them and a tremendous amount of wildlife, not just birds.

One also must consider the natural habitat needs of the plants and animals that were and remain in the Everglades. One mined the needs of the human's that lived in the historic predrainage Everglades.

The natural needs of the plants that were found, and somewhat remain, in the Everglades was dry ground. At least ground dry enough to allow the plants roots not to rot and the plant to grow. One also must remember that while standing water on an island is not start of the harm to these plants as the harm to them starts when their roots are too wet. This is often a matter of inches because in most cases the uplands were only inches above the high water line of the predrained Everglades. Some of the key indicator plants that we must look at are wild fig, coco plum, maiden cane, myrtle, sawgrass and cattails.

Sawgrass has to have a period of time where there is no water, yes wet soil, but not standing water on the ground. This is brought out in the book where it talks about how deep water caused sawgrass to die out while too little water caused it to also die out. Yet, without proper water sawgrass does not reproduce. The plant's seeds and seedlings have to land on damp soil to grow. New starts will not grow if they fall onto land that is covered with water.

L J Moller Page 3 of 16

Wild fig, coco plum, maiden cane all require dry ground to live and reproduce. As you read the following records you will find these plants are often observed in the Everglades. When you read the <u>LANDSCAPES AND HYDROLOGY OF THE PREDRAINAGE EVERGLADES</u> you will find that the author acknowledges these natural facts. But, the author attempts to discredit these plants in today's Everglades as being a product of drainage and were not of significant populations in the undrained Everglades region. In my opinion, and I am sure after you read the following will agree, the author is not correct in this assumption.

We can agree that these upland plants have been harmed by the over draining which caused fires and the burning of the muck islands and then by the floods which caused these plants to die.

The death of the plants stopped the natural island building cycle which is brought about the massive leaf and wood branch loses that occur. The falling vegetation speeds up the development of these islands.

You will also find that thousands of islands were in the predrained Everglades. These islands are mostly gone today because of the fires and flooding. By pushing in 20% more water than is allowed by today's regulation these smaller islands, "mud pie" islands will not ever develop.

I also find it interesting the author does not address the issue of cattails in the Everglades and particularly in the parts of the WCAs that are kept flooded. The best of example of what will happen to the Everglades when kept under water is the NE part of WCA2A. This area has long been nothing but a huge thick cattail monoculture. Another area the author should bring into the mix is the NE part of Holely Lands. This area burned and is now under water all the time and unless the area has changed in the last ten years, it is a cattail plantation, too. This is what we can expect if they continue with flooding WCA3.

The animals you need to key in are the alligators, turtles and snakes. All these animals require dry ground to lay their eggs. No dry ground means not reproduction of these animals.

While the author of <u>LANDSCAPES AND HYDROLOGY OF THE PREDRAINAGE EVERGLADES</u> has a good bit to say about the deer in the Everglades he seems to trying to discredit the Florida Fish, Wildlife and Conservation Commission and the fine work they have been doing in the Everglades, more on this later. He also seems to be attempting to get uninformed folks to think the predrained Everglades was not home to the deer. As you read the following information about the predrained Everglades, you will see that there were deer in these Everglades. You also must remember that by the time the deer have drowned all the smaller animals have already drowned. Any water over 18 inches is harmful to not only the deer but also the smaller animals and upland areas.

I will agree that because of the canals we have drained off much of the water that once was in the greater Everglades system. This water needs to flow without levees and pumps from Lake Okeechobee to FL Bay. However, this does not mean that the water in the Florida Everglades, WCAs, is to be so deep that it harms what is there today. CERP was created on a do no harm concept. This concepts seems to have been lost in the quest to push predrainage water volumes back into Everglades National Park, while providing potable water and irrigation water along with flood protection to development yet to come. To get the volume of predrainage water that was once in Everglades National Park it is necessary to double the depth of today's water in the remaining Everglades. This is just simple math. With about 50% of the historic predrained Everglades remaining to obtain 100% of the predrained water volumes then twice the natural water depth is needed in the remaining Everglades hence, we have the CEPP plan to put 20% more flood stage for 40% of each year.

The following question has been asked for nearly 15 years: When does the floods of today become tomorrow's desired and planned for water depths? How do we turn flood conditions into

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normal conditions? It now appears this can happen by cherry picking the data from old records to support such a plan while ignore all the other facts that do not support such a plan.

I do agree that the land elevation differences in today's Everglades from US 41 to the L-5 is about four feet. However, this is not a flat line but an undulating line that may have more or less elevation differences. This undulating landscape is seen in the works below as well as in the LANDSCAPES AND HYDROLOGY OF THE PREDRAINAGE EVERGLADES. This is because we can read where there were locations were water was deeper than others and shallower than others. Hence the need to portaging, to drag canoes in the Everglades. Hence, the ability to paddle and in some cases sail small boats in the Everglades. However, in today's everglades due to the flattening of the system these undulations are not as significant or severe as they were in the predained Everglades. Thus, today if we attempt to push the predrainage water volumes into today's Everglades we will be doing more harm than good.

Not only does the land undulate north and south but also east and west. This explains the ridge and slough issue where explores had to portage their canoes in a swamp. The reports below have explores not only having to portage when going east and west but also north and south. One day there are able to paddle their canoes in two feet of water and the next they are dragging them in two inches of water will going south and well south of US 41.

Obviously, there were deer in the predrained Everglades. All one has to do is read the following documents, some of which were cited by the author to help establish the book's position on deep water.

Further, one reads about Willoughby's exploits into the Everglades they will find the states he found deer tracks on the islands he camped on. He never mentioned if he saw or shot a deer. But, the deer were present.

One needs to also read the book <u>Pelts Plumes & Hides White traders among the Seminole Indians 1870-1930</u> by Harry A. Kersey, Jr. to fully understand that there were plenty of deer and other animals that require dry ground live on, as well as water.

http://digitalcollections.fiu.edu/teguesta/files/1950/50 1 05.pdf

Across South Gentral Florida in 1882:

THE ACCOUNT OF THE FIRST NEW ORLEANS TIMES-DEMOCRAT EXPLORING EXPEDITION Edited by MORGAN DEWEY PEOPLES

and

EDWIN ADAMS DAVIS

"After walking about one-quarter of a mile in the woods, we come upon an old Indian camp, consisting of seven or eight palmetto shanties. This is one of their summer camps. During the winter they go further South, in and around the Everglades, for the purpose of hunting. The bones and antlers of deer which lay scattered around attest the excellence of the surrounding country as a hunting ground."

http://digitalcollections.fiu.edu/tequesta/files/1951/51 1 04.pdf

Across South Central Florida in 1882;

THE ACCOUNT OF THE FIRST NEW ORLEANS TIMES-DEMOCRAT EXPLORING EXPEDITION Edited by MORGAN DEWEY PEOPLES and

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EDWIN ADAMS DAVIS On Lake Okeechobee, Fla. Dec. 1882

"The huge hummucks surrounding this lake are noted throughout the State as being the finest wild turkey and deer ground there is in the South. Two or three weeks before our arrival a band of Indians camped on

these grounds and went deliberately to work slaughtering the turkeys, leaving hundreds on the ground dead, not even picking them up. No other reason could be given for such wanton destruction, except to keep away the white hunters they wished to destroy the game."

http://digitalcollections.fiu.edu/tequesta/files/1945/45 1 03.pdf

A Canoe Expedition Into the Everglades in 1842*

by GEORGE HENRY PREBLE Rear Admiral USN, 2826-1885.

"The In-to-kectah, or Deer-Driving Place, is a pretty little lake, with an island of perhaps one hundred acres of very fine land. 'There,' said the guide, 'the Indians once lived in very great numbers, and many may yet remain;' so our boats were concealed, and we waited for night to make an examination,"

"Tuesday, M'ch 15-Cool and cloudy, wind N.E.; at 9 A.M. landed and examined a live-oak hummock where Indians had been dressing deerskins not more than two weeks back."

"Monday, Ap'l 4-Pleasant. Killed two moccasin snakes. Our guide shot two Everglade hens. Saw two deer. They stood gazing at us some time, and then loped off, stopping to gaze and wonder who we were. My Division captured twenty blue cranes, almost full grown, one hardshell turtle, one terrapin, and a small alligator. Lots of grub for all hands. Lat. at noon 26 degrees 52'N. Our course about S.E. Saw a large smoke in the cypress bearing East. Dragged the canoes along by main force all day. Camped in the canoes at sundown."

http://digitalcollections.fiu.edu/tequesta/files/1949/49 1 02.pdf

A Dash through the Everglades

Introduction

When preparing the Journal of James E. Iugraham's Everglades Exploring Expedition in March-April, 1892,

"The "Everglades" was always associated in my mind with Seminole Indians, plenty of deer, turkey, fish and all kinds of game usually found 15 in the wild and undeveloped sections of our State, besides being endowed with that glamour that unexplored regions shroud themselves in and which to an ardent fancy have all the attractions that the imagination can bring forth."

"We had not gone far from camp when we heard the baying of our dogs coming rapidly toward us. We were standing ankle deep in water and just in the edge of some young

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cypress trees no higher than our heads when I saw a deer on the run in the edge of the swamp about 100 yards to our right."

"Since we had not seen any game in the 'Glades the guns were usually kept in the boats. This morning, however, as we were strung out through the saw grass I heard shouts of those in front, "Get the gun-shoot him kill him-catch him!" and an instant later a deer emerged from the grass and plunged heavily in the bog not twenty yards from me."

"At four o'clock we made camp on a high, dry island which had a growth of young hack berries on it. The island looked as if it had once been in cultivation. We also saw deer tracks and believed we must be near land. Next morning, April 4th, from the top of a tree the thatched roof of an Indian lut on a neighboring island could be distinctly seen and we knew then that this was what Mr. Ingraham had seen the day before. We started off in high spirits for the Indian camp, but found saw grass in front of us any way we turned. Just as we began forcing our way through the grass, an Indian in his canoe came into sight."

As you read the following records of the Ingraham expedition in 1892 keep in mind there was only one might they had to spend sleeping on sawgrass because they could not locate a suitable island to camp on.

http://digitalcollections.fiu.edu/tequesta/files/1947/47 1 01.pdf

The Ingraham Everglades Exploring Expedition, 1892

Edited, with notes, by WATT P. MARCHMAN

"In the afternoon we were crossing the Allen Prairie, a fine body of land some 25 miles long by 3 to 6 miles wide, lying between the Okaloacoochee Swamp and the Big Cypress from a point 2 miles east of place known as "Carson's." It is a plateau diversified by pine islands, hamunock islands and prairie with abundance of water and seemingly of character to afford thoroughly good pasturage with attention, for the raising of stock in large quantities, improving breeds, etc"

"Messrs. Ingraham, Chase and Moses with one of the canvas boats, visited a little hammock island, lying south of the camp about one mile, on which evidence of an Indian camp remained, - a lean-to-roof that once had been thatched with palmetto, a few poles stuck into the ground and half burned logs, end to end,"

"after starting an Indian approached them on foot, accompanied by three dogs. He introduced himself as "Billy Fiewel" and, in English, said, "good morning." He understood English sufficiently to make himself readily understood. Was acquainted with the Hendrys of Fort Myers, Taylor Frierson and others of the same place. After some palaver, he agreed to go with us today for a consideration. Shortly after he said, "wait, will get canoe". Leaving us and going to a little hammock island some 200 yards distant, he soon returned with a fine cypress canoe which he said was made by his son "Little Billy", whose age was 20. All got into the boat, seated themselves in the bottom and Billy stood upon the stern and poled, and pushed when the water was too shallow for polling, following the remainder of the crowd,"

"The island upon which we are located is perhaps 1/4 of an acre in extent upon which are grape vines, India rubber or wild fig, elder bushes, briers and a pumpkin vine. Indian signs were noticed. The average depth of water today, 12 inches[:] the latter part of the day it deepened to 18 inches. In sounding with a pole we discovered rock frequently about one foot below the surface of the water."

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"We will call this camp island No. 22 (indicating the day of the month), and enabling the location of any particular point when taken in connection with the engineer's report and plat. From the top of a tree an Indian camp can be seen about 5 miles to the south of us and supposed to be occupied."

"Camp No. 7, Island No. 22, Wednesday, March 23rd.Up to last night, we made, approximately, 14.7 miles from Ft. Shackleford, which is better than anticipated. Surveying party left about 6 A.M. on foot, but taking one boat to carry stakes and a portion of the luggage. Broke camp and followed at 7 A.M. and proceeded very well until noon.

Reached island No. 23, Camp No. 8, after sunset. In order to get to the island and secure a dry sleeping place, were obliged to leave our boats...behind, packing food and bedding on our backs.

Made about 7 miles on our course today, though"

"This island has a very tropical growth and is the richest yet visited. It is perhaps one acre in extent and, as usual, used by the Indians as a camping ground. It has been partially cleared and cultivated at one time, marks of the corn or potato rows being well defined, especially after lying on them at night."

"Our Indian, Billy Fiewel, did not turn up tonight as agreed. Fresh Indian signs were seen by Mr. Newman, who arrived ahead of the party an hour or two before sunset; so he may have come and seeing our saw grass fires to the south and west of the island, concluded we were too far off the course for him to bother about us.

The 2 miles of packing from the point where we left the boats was through the boggiest marsh and saw grass imaginable, and all hands were thoroughly tired out when we reached Camp No. 8, Island No. 23.

The Glades at this point present an endless sea of saw and other"

"The Glades at this point present an endless sea of saw and other grasses, lily pads, a great many of them in bloom, with small patches of water amid clear spots in the grass and small islands here and there. Two large islands of considerable extent can be seen to the eastward from this island-only 2 or 3 very small ones to the southeast and the cypress still very visible to the southwest but further away. We are 92,750 feet from Shackleford tonight on our course." (17+niles)

"The boats arrived shortly afternoon. Broke camp about 2 P.M. and followed surveyors. It took until sunset to reach Island No. 24 and Camp No. 9[,] only 21/2 miles east. Had to make several portages and drag the boats through saw grass. All hands extremely tired and whiskey was served out from the medicine stores. We captured 5 turtles today"

"Camp No. 9, Island No. 24, Friday, March 25th, 1892. Surveyors got away first, balance following about 7 A.M. This was one of the hardest days yet. Water on our course, sufficient for the boats, scarce[;] and saw grass very plentiful. Made the longest portage yet over one of the saw grasses, over 2,000 feet. Abandoned the smallest of our wooden boats and threw away some of our impedimenta before crossing.

Arrived at Island No. 25 about 3 P.M. The prospecting party reported good showing for tomorrow, which means that sufficient water courses through the saw grass was visible in the direction we want to travel.

Island No. 25 has not been visited by Indians for a long time, as we found it occupied as a rookery by white herons, principally, who flew away at our approach, leaving their nests occupied by many young birds."

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"Camp No. 10, Island No. 25, Saturday, March 26th, 1892. Got away about 8 A.M. and had a very successful day, making nearly 5 miles in a southeasterly direction. The rock continues from 12 to 18 inches below mud, 4 feet from surface of water to rock. Rather easy day though all were quite tired. Arrived at Island No. 26, Camp No. 11, at 5:30 P. M. Island about 11 of an acre in extent and recently visited by Indians. A larger island lies 1/4 of a mile east, in which roosted a large number of birds. We did not visit it, as the smaller island was less odorous and answered our requirements."

"Got away about 9 A.M. Made 14 of a mile east and 2 miles or so S.E. Ran into large bodies of saw grass and no water on our course sufficient to float boats. The glades all seem to have a tendency to the south and occasionally a little west of south, while our course is almost due S. E. Retraced our steps in a northeasterly course and camped at a small tree, the inception of an island, about 11/2 miles east of Camp No. 11, being out Camp No. 12. It was a very discouraging day as we worked hard and travelled several miles that did not count. Cut down part of the green tree above mentioned for fuel, which our commissary, George Matthieux, finally succeeded in inducing to burn after everybody else had given it up."

"One small island in sight 4 miles to the N.E. One about 7 miles east somewhat larger. Seen from the top of a stunted custard apple tree from which we were prospecting."

NO WATER: "Camp No. 13, Tuesday, March 29th. Left Camp No. 13 at 7 A.M., all except Mr. Ingraham, who remained with the boats. Each carried a pack and walked about 1½ miles through saw grass and bog. 14 men went back after the boats. We are endeavoring to reach the same island we saw yesterday and are within 1% miles of it with our packs, but the boats remain behind yet."

"After an excessively arduous day's work all hands reached Island No. 29, Camp No. 14, about 5 P.M. Found it to be a white heron rookery. By Mr. Newman's direction we killed 15 of the nearly grown young that could not fly and Mr. Matthieux converted them into a dish much better than the average Florida chicken; or so it seemed to us. Mr. Newman estimates we are 25 to 27 miles from Miami."

"Left island No. 29, Camp No. 14, about 8 A.M. Surveyors chaining for an island to the S. E., but the chaimnen giving out, occasioned by physical exhaustion going through high saw grass and limited food, chaining had to be given up for the present and Mr. Newman triangulated for an island nearer and more to the eastward. From Island 29 there are 6 or 7 islands in sight. Saw grass almost continuously towards Island No. 30 and we had a hard time reaching it, but finally succeeded about dark. Distance from Island 29, 3 miles and 3,000 feet."

"[Camp No. 15,] Thursday, March 31st. 3 or 4 islands in sight to the south and east. Got away from Island 30, Camp 15, about 9 A.M. Triangulated to island South 20 degrees east. The chairmen gave completely out in chaining for the base line to make this triangulation, and **had** to ride in boat."

"We caught and shot, during the day, 7 terrapins, 1 marsh hen, and 3 or 4 fish. The latter jumped into our boats and proved a fine addition to our evening meal. Wind all day very strong from the S. E. In the afternoon at one time found sand underlying the mud instead of rock. For the most part the rock is about 5 feet from the surface of water. This island has willow growth; is perhaps 3/ of an acre in extent and the richest soil of any we have struck, although they are all exceedingly fertile. The saw grass stumps from which we cut our bed to lie on, pushed out its center stalk 3/4 of an inch during the night. This had been noticed several times."

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"[Camp No. 16], Friday, April 1st. Broke Camp No. 16 and left Island No. 31 about 8:30 A.M., though we

made strong efforts to get away earlier. Small islands are becoming quite frequent. On some of them is a small stunted tree said to be a custard apple."

"Good water for the boats, the deepest yet. About 2.5 feet on an average; sometimes 4 feet. It seemed to have fairly well defined banks. Along the edges of the channels the saw grass was very heavy and tall, as well as quite dark colored. We came across frequent Indian burns, some made within a few days.

Smokes to the east, southeast, and west, indicating their presence, but none were visible. The water gave out after dinner and we made several portages finally reaching Camp No. 17 about 5:30 P.M. Island No. 1 is exceedingly rich, having been cultivated, and Indian signs found. It was occupied by buzzards that left on our approach."

"The growth on the last two islands has consisted largely of morning glories, wild cucumbers, bays, elders, and other familiar growth. Mr. Lucky found a piece of pine bark on Island No. 1. [The islands were numbered, it must be remembered, on the day on which each was sighted.] We caught 7 terrapins,..."

"High water mark well defined on the saw grass, indicating about 12 inches above present level. We noticed at many points, since leaving Camp 5, nests of ants fastened to leaves and bushes, usually about 18 to 24 inches above present water level"

"This island is said by the engineer to be 191/2 miles in a direct line from Miami, bearing South 47 degrees east, as near as he can determine by the opposite character of the survey and 1/2 mile north of our original course from Shackleford."

"We saw one large island to the south and one to the N. E., each perhaps 2 or 3 acres or less.

A good many bushes grew in the saw grass. Rock getting deeper, being from 6 to 61/2 feet from surface of water. Less water on the saw grasses."

"Had a pretty hard day trying to keep on our course. Made several portages and got bottled up several times in tortuous, narrow, channels through the saw grass. To lighten the boat we cached several things at Camp No. 18, which had an incipient island in the shape of a willow tree on a slight elevation, a few inches above present stage of water."

"We omitted our noon meal as it took all our efforts to get to an island where there was wood for cooking and a dry place to sleep. We arrived at Island No. 3, Camp No. 19 about 3:30 P.M. It contained possibly 11/2 to 2 acres, having a scrubby extension for some distance to the S. E. The portion upon which we pitched our bars was circular in form and apparently of second growth. The soil is dark brown and very rich, covered with fallen leaves, making it an ideal camp. From the top of the one large rubber tree, timber was seen 4 or 5 miles away to the eastward and extending north and south several miles. The character of the timber could uot be definitely determined but presumably pine. This was very encouraging and braced everybody up wonderfully, giving them renewed strength and courage as it foretold the beginning of the end. Two or three small shanties were also seen on an island to the Northeast about one mile away. A peculiarity of the atmosphere makes it difficult to estimate distances or magnitudes of objects. Small bushes having the a..."

http://digitalcollections.fiu.edu/tequesta/files/1963/63 1 04.pdf

North to South Through the Glades in 1883

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The Account of the Second Expedition into the Florida Everglades by the New Orleans *Times-Democrat* Edited *by* MARY K. WINTRINGHAM

"The gentlemen of the party are all keen sportsmen, the majority of them good shoots and fisherman, consequently we are seldom without game or fish in this country, that is teeming with deer, bear, wild turkeys, ducks, snipe, quail, and numerous water fowl of species quite new to us, which we will describe more fully hereafter."

"In the Southern glades many of the islands can be utilized and cultivated, but with this exception, the Florida Everglades are of no value agriculturally."

"Our progress was uninterrupted in our passage among the hundreds of islands composing the glades, until Dec. 3, when we encountered the rocks which border the southern glades. The boats were carried for miles by hand until the evening of the 5th of December, when we sighted the rockets from the camp of parties we had sent to camp, until our arrival at the head of Sharks River, with instruction to send up rockets by night and make smoke by day."

"Once in the Everglades proper the scene was different. Innumerable romantic islands were discovered, lakes and game in super-abundance, and plenty of Indians, suspicious but not unfriendly to the whites."

http://digitalcollections.fiu.edu/tequesta/files/1964/64 1 05.pdf

North to South Through the Everglades in 1883

Edited by MARY K. WINTRINGHAM

"Lieut. Francis Marion, in company with Mr. Buckingham Smith, attempted to explore them in 1847. He says: "It was my desire to reach the northern end of the glades and the region of Lake Okeechobee on this expedition, and to examine the islands above New River."

"The character of the country now improved with every day's journey. The water was deeper and the boats moved more easily. In making soundings it was discovered that the bottom was no longer mud but rock, the first that had been met with. The party were evidently approaching the islands lying in the southern portion of the Everglades. The first island they found was about three acres in extent, well covered with wild fig and orchard apple, but only about twenty feet square of it was solid dry land. Here the party rested and recuperated, for they were completely fagged out, ragged, barefooted and broken down."

"For several days the party moved through a region of islands. Islands there were innumerable, but all of them very small, not over three acres in extent, with very little high and dry land on them, and separated from each other by streams and saw-grass. On several of them traces of Indian camps were discovered, but the Indians never put in their appearance, although whenever the expedition made a fire it was answered in every direction. They were now on the lookout for the smoke signal which was"

"The saw-grass extends 100 miles south of Lake Okeechobee, instead of ten. South of this is a region of islands, but islands so small as to be of little value for any practical purposes. The Indians, who were supposed to live in the Everglades, do reside there, but they seem to be peaceful and well-disposed, and..."

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In reading the book <u>LANDSCAPES AND HYDROLOGY OF THE PREDRAINAGE EVERGLADES</u> a number of items need more explanation:

- 1) What is meant by 3rd rate land good sized pine, (5.10)? 2) What is meant by 3rd rate wet prairie.?
- 3) These two terms imply that there is a 1st, 2nd or 4th rate land type. Is there other levels of land "rate"?
- 4) What are the performance measures use to determine the land's "rate"?

Page 14; 5.10; inundated to 2 feet deep seasonal; this implies that the water is only two feet deep when there it is the rainy season and not 3 or more feet as currently planed for in CEPP. Sawgrass marsh under water at all times. This does not comply with what is presented in other research which state sawgrass must have dry ground, not dusty dry but no water standing to allow it to reproduce. Also, we read later that sawgrass that is noder water all the time dies. The explores saw islands but could not reach them because of the sawgrass.

Page 15; 5.17; the explore mentions the ground was scoured by the water. We need to know how long, how many years, it took for this type of geological structure to appear. This is an important issue because the current work by Larsou is encouraging the deep water in the Everglades so that a 3 cm/sec flow rate can be reached or 1.5 miles/day flow rate there by causing the scouring of today's Everglades and hence thought to build the sloughs and inversely building the ridges and islands. Mind you this 1.5 miles/day flow rate is about is about six (6) times faster than the historically accepted rate. Further, this high flow rate is supposed to move only 3 microns of material. Therefore the questions have to be asked; how many days a year does this flow rate have to occur to move any material, how far will this material move, where will it move to, and how many years will it take to scour one inch of a slough's bottom to create a one inch inverse elevation for an island? These questions have been submitted to the ACOE/DOI/SFWMD folks since November 2012. As of this writing there has been no answers presented.

Page 15; water is said to have a current that is perceptible. Such a current would not be 1.5 miles/day. Such a current would be more like the historically accepted rate of a quarter a mile per day.

5.18; It is said the sawgrass is growing in 10 to 12 inches of water. This is far from the desired CEPP goal of 3 feet.

Page 22; 5.52; The author of the book includes information from an explore about water leads from Lake Okeechobee going into the sawgrass.... One has to asked why the dots indicating there was more to the original statement made by the explorer? Does this mean that the explore saw distance islands as we have read in the above information that there were thousands of islands in the Everglades? What did the book's author leave out and why?

Page 30; 5.83; Lake Okecchobee has streams going south and are closed off by sawgrass and the water moves slow. Slow moving water is not 1.5 miles per day.

Page 31; 5.86; it is reported by the explorer that they observed many alligators in the sawgrass. Remind you that alligators need some dry ground to lay their eggs.

(I stop typing the page number and only using the section indicators, which are in page number order.)

- 6.5; What is meant by "made mount and pits"?
- 6.6; What is meant by "shoal water"?
- 6:30; Sawgrass is every where; remember sawgrass needs dry ground to reproduce.
- 8.1; Maiden Cane seen; this plant needs dry ground to live. There must have been islands.

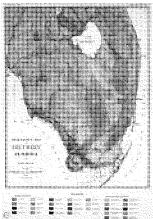
- 8.2; The explores found islands with corn fields on them. Obviously, these islands were big and very dry. If the current CEPPP plan are implemented any of these islands would be under water for more than 130 days a year. This would not be restoration but destruction.
- 8.5; The explorers report that there are thousands of islands, many are a quarter-acre with some are several acres. All these islands would be under water if today's CEPP plans come about. The explorers talk about channels between these islands being 3 to 5 feet. This is possible because of the undulating nature of the ground. But today with the area having lost this undulation any attempt to return these channels to this predrainage water depth will certainly drown the remaining islands.
- 8.7; The explores talk about the ridge and slough water depths (1905) being three to six feet in the sloughs. This could be possible in 1905 or before in some places. But, as read in the above actual reports more likely such water depth was only for a short distance and not for many miles. No matter what the depth and distance of these deep water sloughs were in 1905 to attempt to put that deep of water in today's Everglades will drown the remaining islands. In this section the explorers again mention how slow the water moves, "water almost imperceptibly moving south". This is not 3 cm/sec or 1.5 miles per day. Therefore, obviously there has to be another natural mechanize to make the ridges and sloughs and not the theoretical concept of scouring out the bottom of the slough. There is a better and more natural mechanism to create the islands, ridges and sloughs that I will present later.
- 8.8; The explores talk about the islands being 2 to 3 feet high and have wild figs on them. If the CEPP plan calling for 20% more water than today's flood stage happens even the islands of predrainage will go under water. Remember wild figs grow on the driest of ground.
- Section 8.8 begs the question: How do you have six feet of water and the big driest of islands are only two to three feet high? The only answer is the slough bottoms nearest these islands is not very deep while in some other places some slough bottoms are very low thereby allowing for deeper water.
- 8.10: The explorers go into detail about going from island to island and use the Indian given name for each island. Hence, the Indians had use these islands. Why did the book's author not use the most current archeological information to help reconstruct the predrainage landscape? Could it be if this information was used the deep water folks would not have their desires supported by the real and total facts about the Everglades? Hocomothlacco was camped on, moved a day's away to Efanoc-co-qu-chee that was to the NNW; moved six miles NW to Co-chok-o-ne-lu-jo, which had cornfields on it; moved 6 miles further to In-tas-kee, it too was cultivated by the Indians who were living on it (1847). Obviously, there were plenty of islands in the Everglades.
- 8.16; Ives, 1856, talks about the "mud islands". Today sportsmen who know the glades talk about the "mud islands". If CEPP is implemented as currently planned there will be no mud islands as they will go under water
- 8.17; The explorers talk about a "sea of waving green grasses with innumerable islands of all sizes, Henshall, 1883. He also talks about sloughs with two feet of water in them in the dry season and 4 to 6 feet of water deep in the wet season. This leads to the question of how do you have innumerable islands that are only 2 to 3 feet high, above the ground, with 4 to 6 feet of water during the west season? Certainly, these islands would not grow upland vegetation on them as it would drown. Is there some other fact or element that is missing from what was observed and what we are able to learn from such reports? The natural system needs and the numbers do not add up, why not?
- 8.19; The explorers talk about the islands being covered with wild figs and custard apples. Again, these trees need high dry ground. How do we account for 2 to 3 foot high islands and then 4 to 6 feet of water on the ground and dry land plants growing on the islands?
- 8.20; The book's author talks about Willoughby's exploration and assumes the years of 1891-1892 were low rain fall years. How is this rainfall information reached or verified? The books anthor also does not tell us that Willoughby found the head waters of the Miami River as he traveled from the mouth of Shark River

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by following a very slow current, not 1.5 miles per day current, that was flowing to the NE. This is Willoughby's book. Why was this fact omitted?

- 8.23; Dodge, 1894, observed a variety of tree island sizes. With all the reports of islands it appears there were plenty of uplands before the Everglades was drained and with all these islands there were plenty of types of upland animals, including deer.
- 8.24; 1896 Griswold reports on sailing the Everglades. Was this a particularly wet year with lots of rain. Since this was so early in the history of Florida does that mean the Everglades is state sovereign lands and if it is does it mean the EAA is too?
- 8.27; Where Col. Harney's 1840 expedition found open water Willoughby found sawgrass. This just proves that sawgrass does not grow where there is standing water. Therefore, all the places that had sawgrass before drainage did not have standing water on their before the canals were dug.
- 8.33; The explorers reported seeing tree islands in the ridge and slough area. It is also stated that islands make up less than 1% of the entire acreage of the Everglades thus with thousands of islands, so many they could not be counted, they were not very big in size.
- 8.49; Water moves very slow, so Gallatin, 1958, stated; this is not 3 cm/sec.
- 8.50; Slough bottom relationship to the ridge top predrainage closure of WCA3, 1915, is 2 to 3 feet. Loveless (FWC-1959). This is inline with what many others said about the topography of that area.
- 8.51; The book's author does a real disservice to one of the Nation's finest wildlife conservation organization by stating the FWC wants low water for deer and that the FWC controls this water depth for the purpose. First, the FWC has no control over the water going and coming from the WCA, Everglades. The control is with the ACOE/SFWMD/National Park Service. It is controlled by the ACOE because draining and flood protection project that is now in place is an ACOE project. Then the SFWMD controls the water going and coming because they either own the land or have flood easement on the land which allows them to flood the area to a depth of 12 feet. Unless these facts have changed that is what they were in the 1990s. You may wonder how the National Park Service controls the water in the WCAs. The Everglades National Park Superintendent can get all the water control structures close or opened as he desires. This happened on a number of occasions and that has caused the water to flood the WCAs. Further, I have read where the ENP superintendent wants to keep control of the water flowing into ENP and plans to close the out flow structures when needed.
- 8-WP-4; The author wants us to believe that the injrtle and sawgrass ridges are a due to lower water levels. While I will agree some might be the majority of these were in place before drainage took place. This is evident in the reports done by the early explorers who had to portage and/or drag their canoes more then paddle. I will agree some of these higher areas became bigger due to drainage.

This is the 1943 map of the remaining islands that were once innumerable:



(For those who want a closer look at this map you can copy it and paste into another word document. Once there you can expand it to 300% and see all the islands and information better.)

I am sure there are more recent maps of the remaining islands. I also understand that we are currently losing a lot of islands each year due to high water. Today's high water is going to be tomorrow's low water. This means will lose all the island even faster.

If high water created, islands then why have all the islands that were drowned in WCA2A & B not returned. One think if high water created islands that we would see such happen in WCA2.

8-WP-5; 1970 Loveless stated the returning higher water depths eliminated the tree islands. This is what will happen to all the islands in WCA3 when the current CEPP is implemented. I am sure everyone knows why Loveless said "returning" high water. The SFWMD lowered the water in this area because their people were concerned about the floc (a woolly flocculent mass that forms in a liquid as a result of precipitation or the aggregation of suspended particles), was remaining suspended in the water column. Because the area remained flooded, the dead plants did not start the formation of muck and thus water storage was being reduced. Therefore, the dropped the water to cause this material to compact itself back into the muck soils of the area. Once this settling took place the raised the water again.

Since WCA1, Lox NWR, has remained flooded, why are the islands there not returning? One would think if those pushing the current CEPP plan want us to believe floodwaters will cause the rebuilding of the islands and ridges they would first look at those areas, which have been flooded for many years.

There is plenty more evidence in the <u>LANDSCAPES AND HYDROLOGY OF THE PREDRAINAGE</u> EVERGLADES that proves high water is not good for uplands in the Everglades.

8-WP-15; Hagenbuck (1974) the lower 1/3 of WCA3A is a gigantic permanent shallow lake. This is exactly what Arron Hieger told Tom Shirley and I before Arron retired. He explained to us that if they put as much water in the WCA3 as they want to that the entire area would become like the lower 1/3, which according to Hagenbuck is a shallow lake.

8-WP-15; Hagenbuck talks about the slope in WCA3 being a problem because what is good for the northern end is not good for the southern end and vis-a-versa. McVoy (2005) refers to this problem as "flat pool". I think this simply means that water will seeks its own level. Which is exactly what I said it would

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do if they push floodwater volumes into WCA3. They will drown the East Slough Cape Sable Seaside Sparrow population. Well to over come this fact they are currently planning to leave in L-28's southern portion there by blocking water flow from the flooded WCA3 into that part of the Big Cypress and western FNP

8-WP-18; Alexander in 1974 informed all that the tree island lose was due to flooding and/or fire. This is absolutely true and will be after CEPP is done as planed today. They will drown the remaining uplands. By 1845 the coco plum islands were gone and by 1974 the Willow Islands were gone. Both of these types of islands in the southern end of WCA3 which is currently a shallow lake require dry ground. Dry ground, which will not be there when CEPP as planned is completed.

To illustrate the undulation of the ground from north to south one only needs to read and understand what they are reading in the 1883 Times-Democrat expedition. In the appendix section of *LANDSCAPES AND HYDROLOGY OF THE PREDRAINAGE EVERGLADES*, page 212-214, we find these explorers reporting the following:

Near Lake Okeechobee, the water was 10 inches deep

Miles south of there it was 4 inches deep on November 11

On November 22 they saw lots of gators, remember gators need dry ground to lay their eggs so there had to be islands about

November 23 the water was 2 inches deep

November 27 they found islands with maiden cane on them; this plant requires dry ground November 29 they found islands with fig trees on them and to the east they say 100's of islands and to the west they saw cypress trees, the water was also shallow

I could go on but 1 think most understand the problem and the big picture surrounding this book LANDSCAPES AND HYDROLOGY OF THE PREDRAINAGE EVERGLADES.

The author of the book often uses terms that are not for certain type terms. These terms are ones that are used when one is not sure of their positions. The following terms are used excessively: Assume, Probable, Most Likely, Possibly or Possible, Apparently, and Conjecture.

Earlier in the document, I said I would lay out what I think built the islands, ridges and sloughs which took place over many hundreds of years. These elements of the Everglades were built by the interaction between the water depth, annual droughts, animals (birds, gators, fish, and upland animals), plants and water flow. In most case, the islands south of US 41 I have been told are mainly rock based islauds, which is means the island has a higher rock formation to develop on. The process of this location becoming and island follows the same one as the islands north of US 41. Of course, I have to take the word of folks who are allowed to access Everglades National Park as I have not been to these islands. I can say with all confidence that majority, if not all, of the islands north of US 41 were started by alligators. The gator would dig his hole and pile up muck. This mud pie island would be the starting place for wood vegetation to grow, which would help attract birds to the water hole. Along with the fish, bird, gator and other animals by-products falling onto the mud pie island and/or in to the water this material enriched the soil and water by adding P and N to the system. This enrichment would encourage faster and stronger growth of plant materials which would drop leaves and limbs which would add to the structure of the island. The water would flow, causing the familiar tear drop shape, but this shape was not caused by souring or erosion but by the movement of the P and N down stream. As this enriched water moved south it encouraged a more vigorous plant growth, which in turn created more places for birds and other animals to rest, which add to the P and N in the water in that location. Over time, we developed a big high island. That was until man started drying them so much they burned or flooding them as with CEPP plans will and drowning the figs and upland plants that caused a reversal of the process and killed the islands. A similar process occurred on rock base islands only the gator was not the starting element, it was the higher rock of the location

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The ridges are bit more complex in their origin but the idea is clearly laid out in <u>L4NDSCAPES AND HYDROLOGY OF THE PREDRAINAGE EVERGLADES</u> and other works. That is if the reader is aware of the interaction between all the players in the Everglades. In most cases the ridge is started by a process that is wind generated. The wind blows the floc into the line of sawgrass or other plants. This floc is left there when the <u>annual drought</u> happens. This floc starts to accumulate over time and starts a ridge. The slightly higher ground allows wood plants, myrtle or willow, to start. These plants provide a place for birds to land. Their droppings enrich the water in that location and the plants grow faster because of the P and N, which initiates the start of the ridge. As the ridge develops, it causes the water to channel and different plant species respond to this channeling and deeper water. Over time, the ridges become very big and have dense sawgrass, myrtle, willows and vines. All these elements working together make ridge and slough system process.

I am sure all remember the reports of the huge flocks of birds that were so big the sky would darken when they flew over. The noise of their wing beats was said to be deafening. Walt Deneen always used the return of these huge flocks of birds as one of the performance measure for the success of CERP. Of course, today many of these birds do not reach the Everglades because they find easier feeding in the fish farm areas of the SE and on other areas that feed them.

I do not understand why the researchers have not fully investigated the relationships between the water, birds, gators, upland animals, fish etc. to develop a properly defined technique by which nature created the uplands, ridges and sloughs of the Everglades.

While I do not agree with all the findings in the book and I do agree with some I think the book should be used by all to press for the absolute need to reconnect Lake Okeechobee with the remaining undeveloped Everglades. This book clearly illustrates there must be year around constant flow of water from the Lake to the Everglades that is not hindered by the levees and pumps as it moves to Florida Bay through Everglades National Park. In order to this there needs to be a serious of well planned spillways on the current dam around Lake Okeechobee that will allow water from the Lake to freely flow south whenever the water reaches an elevation of 13.5 in the Lake. These spillways would feed water to an expanding flow way to the planned STAs and onto the remaining undeveloped Everglades. Once there it would freely flow to FL Bay with no locks, gates, pumps, etc for man to control the waters historic movement south. By doing this there would be water in the wet times of the year and less water in the off-rain periods.

In my opinion I the Federal Government/DOI was serious about restoring Everglades National Park they would work with the State of Florida to figure out how to purchase the US Sugar lands that currently have a contract to purchase agreement on it.

L Jack Moller

ECC: Florida Game and Fish Commission Commissioners Nick Wiley, Executive Director of the FWC Manley Fuller, FWF Bishop Wright, ECC John Rozier, ECC Karl Wickstrom Ted Guy

L Jack Moller

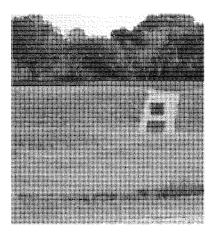
Subject: Public Comment on CEPP; L 67-A CEPP design requirement for support of CEPP.

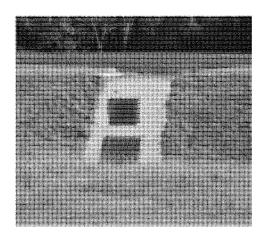
The following pictures are of a levee in Katy TX that is about 24 feet high, creates a catchment pond for urban run off before the water goes into the Buffalo Bayou. The grates on this weir are required for this area but would not be required in the L67-A.. By leaving out the grates fish, gators and other wildlife could freely swim between units. The SFWMD folks raised concerns about heavy equipment crossing weirs. As one can see, heavy equipment crosses the photographed weir. This weir is designed to hold back about 18 inches of water before it freely flows into the Buffalo Bayou.

The design criteria for the project would follow the performance criteria established by the Sustainable Commission: 1) the uplands and hardwoods in the Everglades, which includes the Water Conservation Areas as well as ENP, would not be harmed, 2) over draining of the Water Conservation Areas would not happen, 3) as much water as possible would freely flow into ENP.

These weirs could be placed for the entire length of that part of L 67-A which is on the northern boundary of the Blue Shanty Flow Way and would allow water to flow through the removed portion of the L-29 into the C-29 unimpeded and into ENP through the new bridges.

The topography from L-5 to L 67-A is known, the east-west topography of WCA3A is known, the number of acre-feet of water being pushed into WCA3A is known, the average ET is known, the high and low average rain fall factors are known, therefore the engineers can design the L67-A with as many weirs, as big or little and with their flow set at the appropriate height from the ground level of WCA3 so that the out come would meet the design criteria stated above.







D. Greg Braun
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October 25, 2013

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0013

RE: CEPP

Dear Dr. Ehlinger:

As a professional ecologist who has conducted a variety of projects in peninsular Florida over the last 20 years, and the owner of a single-family residential property on the Indian River Lagoon in Martin County, I ask that you accept these comments as you continue to refine the Central Everglades Planning Project for ultimate implementation. I have attended several of the public hearings conducted by the CEPP project team, and acknowledge the tremendous amount of time and effort that the Corps and its partners are investing in Everglades restoration in general and the CEPP project in particular.

The above-average discharges from Lake Okeechobee into the St. Lucie River Estuary and Caloosahatchee River that have occurred during 2013 have opened the eyes of many people who were previously unaware of the re-occurring impacts that result from the input of poor-quality water that originates far outside the natural boundary of our watersheds. The ecological impacts of the imbalance of water quality, water quantity and timing that had formerly been known primary by environmental activists has now spread to a much broader segment of the population due to the ensuing impacts on our economy.

Along with many other residents of the communities that surround the St. Lucie and Caloosahatchee Rivers, I recognize that full authorization, funding, implementation and completion of CEPP will address less than 20% of the Lake Okeechobee discharges and that we won't see much positive effect from CEPP for at least ten years. Anything that the Corps can do to move more water toward the south and in a quicker time frame would be much appreciated, particularly by those of us who have voluntarily taxed ourselves to move forward expeditiously with the IRL-South and other projects.

I have reviewed the Draft PIR and its appendices and offer the following comments for consideration by the CEPP team:

1) Johnson's Seagrass. I do not agree that the Corps has fully described the adverse impacts on Halophila johnsonii and its designated Critical Habitat that result from the existing system. As an ecologist who has conducted seagrass surveys in the Indian River Lagoon and Lake Worth Lagoon for more than ten years, I have seen first-hand the impacts that elevated Lake Okeechobee discharges have had on the presence, distribution and vitality of Johnson's seagrass, both within designated Critical Habitat areas and outside the Critical Habitat boundaries. Discharges have resulted in quantifiable reductions of this species. The PIR should more directly attribute these re-occurring losses of endangered species and Essential Fish Habitat to the discharges that result from the existing federally-constructed plumbing system, rather than indicate that they are the result "of hurricanes".

Implementation of the preferred CEPP alternative may reduce adverse impacts to Johnson's seagrass, but re-design of the system to further reduce the discharges through the C-44, C-51 would further reduce the adverse impacts.

2) Wood Storks and other state-listed and federally-listed wading birds. Having conducted avian monitoring at various locations within the Greater Everglades Ecosystem boundary, I must also disagree with the assumptions of impacts to this species and several other state-listed species of wading birds (e.g., herons, egrets ...).

It is the cumulative loss of varying-hydroperiod wetlands within the Greater Everglades Ecosystem that has led to the abandonment of historic nesting colonies and their movement to more coastal colonies. Undertaking hydrologic restoration projects north of Lake Okeechobee and creation of more sparsely-vegetated shallow-water wetlands in areas of south of the Lake, including within areas of the existing Everglades Agricultural Area would benefit this species. Intermittently heavy Lake Okeechobee discharges through the C-44 have resulted in adverse impacts to wading birds and their nesting colonies, a situation that is exacerbated when fresh water discharges result in losses of seagrass and submerged aquatic vegetation around wood stork nest colonies (e.g., at Martin County's Bird Island (aka MC-2).

The PIR may accurately consider and address the potential impacts and benefits of the various CEPP alternatives when compared to one another, but it appears to lack acknowledgment of the adverse ecological and economic impacts that the existing system is having on the coastal estuaries. Although I do not wish to in any way slow down the continuation of the CEPP process, acknowledgment of these additional impacts may be helpful in substantiating the need to allow more water to flow south.

Thank you for considering these comments, and best wishes as you continue to refine the CEPP.

Sincerely.

Greg Braun

Greg Braun
Certified Environmental Professional – Registration # 03040418

From:

Subject:
Date:

[EXTERNAL] FW: CEPP Tuesday, October 15, 2013 8:34:02 AM

Subject: CEPP

Hopefully these comments get through in time. My name is John Rosier and am currently the President of the Everglades Coordinating Council and The Fulltrack Conservation Club of Dade County. I represent a large number of sportsmen who regularly use the area that CEPP will affect.

First I would like to say that the expedited process that was used for this project was excellent. The public input and interaction with project managers and planners was fruitful and I can say that my fellow sportsmen feel that our input was taken seriously and with productive results. I would hope that this is a model for future projects.

On to the plan. We sportsmen have endorsed the plan because we see first hand the destruction that high water and dry outs that occur in the area have done. The only problem that we have is with the modeling results that show higher water in the area throughout the year. Depth and duration of water is the most important issue to us since we have tried to show that these factors will cause further destruction of habitat in Area 3. We feel that these problems can be controlled during the operation stage with a water regulation schedule that factors in the appropriate water depth and duration. If you want a prime example of high water destruction, look at Area 2B.

The water and depth issue also affects the population of fur bearing animals in the area. If the water is too high, habitat will be lost and their food source will gone. Also affected will be the wading bird population. If the water is too high, there will be no wading birds

Next is the implementation schedule. We feel that construction should start on the south end since we currently are in a high water situation for the second year in a row. Immediate results would be realized and we would get a good idea how the water would flow into ENP. We currently can put a lot of water into Area 3 with the infrastructure that's in place now. ENP is in need of water now to stop further destruction of the eastern end.

Water quality issues also need to be addressed. The park has stringent standards which may need to modified to ensure a sheetflow process to occur. We don't need the continued ponding of water in Area 3 due to the park refusing water, although in all the meetings they say want all the water they can get.

And finally, We sportsmen consider Area3 more everglades-like than the area that this project wants to improve. I say improve because the restoration moniker has

been put on this project. Restore means putting back to original, and we know that the Everglades as we knew back in the 1800's will never be attainable. Let's take the habitat we have created and improve it. Let's not destroy one habitat to try and bring back another one that will never be like the original.

Thank you, John Rosier

I have tried to send these comments via e-mail. but obviously due to the gov't shutdown, the website is down.

We value your opinion. Please take a few minutes to share your comments on the service you received from the District by clicking on this \underline{link} .

Scott

It was good to meet you last night in Homestead.

Enclosed is a copy of a booklet with some of Tom Shirley's information and viewpoints regarding our Everglades Eco-System as we discussed.

I would like to also enter the booklet into the comments for CEPP as well as my concerns that from the way I understand the alternatives to choose from I do not see anything in them that would protect the system from extended natural hydro-periods or the increased depth of waters held.

I also understand from an email I received that a participant's line (Jack Moller) was not active when it was his turn to speak. So I will parrot a statement he wished to include in comments to the ACoE make that" we want everyone to understand that putting more water into the WCAs, 15,000 acre feet more, causing more ponding and flooding of the Everglades north of 41 is unacceptable"

"The explanation to Martha about why ALT4R1 was considered an ecological improvement while doing more harm to the WCAs is not supportable. I agree having witnessed first hand the harm done by the previous and existing water

management practices by the principle agencies.

Please enter this correspondence into the public comments for CEPP

Than you for your consideration

Eric Kimmel

The Manual

Eric Kimmel 12685 SW 200 ST Miami FL 33177 Email Looprd@aol.com PH 305-345-4202

WILL YOU HELP?



THIS IS OUR LAST CHANCE TO GET IT RIGHT!

PLEASE APPROVE AN EVERGLADES RESTORATION PLAN, WITH NECESSARY PROTECTION LANGUAGE THAT WILL PROVIDE PROPER SEASONAL WATER DEPTHS THAT WILL REPLENISH LIFE AND NATURAL HABITATS TO THE ENTIRE REMAINING EVERGLADES ECOSYSTEM..



Everglades Coordinating Council

22951 SW 190 Avenue - Miami, Florida 33170
TO COORDINATE THE CONSERVATION EFFORTS OF SOUTH FLORIDA SPORTSMEN'S CLUBS
E-Mail: Evcoord@aol.com Tel/Fax: (305) 248-9924

	February 10, 2000
The Honorable	_
United States Congress	
Washington, D.C. 20501	
Subject: The South Florida Evergla	ades Restoration Restudy Plan

The Everglades Coordinating Council (ECC) is an umbrella organization for almost every sportsmen's/conservation clubs in South Florida. Our membership is concentrated in the South Florida Water Management District (SFWMD) and we have enjoyed these lands/waters since the 1940's. We have been involved with the Everglades's restoration issues before it was popular. Our members worked to save the Everglades and create the laws to protect them from drainage and development. We worked to draw attention the Kissimmee River ditch issues and the pollution of Lake Okeechobee.

We had representation on the Commission that participated in the development of the current restoration plan. We continue to be involved in these issues. Our representative expressed serious concerns with the restudy plan and pointed out many problems. Many of these concerns and problems were corrected. There still remains one big problem that has not been corrected and must be corrected for the ECC to continue its support of the current restoration plan. This restoration plan must significantly improve the environmental quality of the Water Conservation Areas (WCA2 & 3). At the present time these areas are not being restored, but are being used to hold water for other parts of the ecosystem. This action is wrong because there is more natural Everglades habitat north of US 41 then south of US 41. This is wrong because if the Everglades north of US 41 are not restored it will not be long before the Everglades National Park is degraded by the water management practices that has almost completely destroyed the Water Conservation Areas.

We strongly encourage the US Congress to insist that the US Corps of Engineers and South Florida Water Management District restoration plan be able to classify Water Conservation Areas 3A & 3B as "GREEN" and Water Conservation Area 2B as "YELLOW" on their Environmental Quality Control Improvement Chart. If not then Congress should not approve any funding for such a plan that will not restore the Water Conservation Areas. If these improvements are not made we will have to reconsider supporting the restoration plan. Without these improvements in their current plan the majority of the Everglades ecosystem will not be restored but will be completely destroyed.

To help with this process we have attached a number of documents and photographs that show the results of what happens with mismanagement of Florida's waters.

I will take this opportunity to endorse Mr. Tom Shirley whom supplied a lot of the letters, documents, and actual real time photographs. Tom has spent most of his lifetime in the Water Conservation Areas of South Florida and can be considered an expert in the opinion of the ECC. He has become extremely active during these past two years because he knows first hand what is happening in the Everglades. Please take the time to read his enclosed input about the existing problems and his recommendations to make the right decision. The most important document in our report is Tom's seasonal water depth chart. This chart shows the proper water depth to be maintained on a monthly basis to insure a healthy Everglades ecosystem. This is the key to restoring life or bringing final death to the Everglades.

Your decision to authorize and fund the properly developed Everglades Restoration plan as we have so recommended will probably be the final decision to protect what is left of the Everglades ecosystem. So we encourage you to show the utmost leadership in this extremely important State and National issue.

We are looking for strong leadership on this issue from all elected officials in Washington DC. We hope you will ensure the proper plan is approved and funded to restore the remaining Greater Everglades' ecosystem and not just selected portions of the Everglades.

Respectfully,
Wayne Jemkin-

Wayne Jenkins President

Everglades Coordinating Council

WJ/lrc Enclosures

Copies: US Senators, Chairs

US House of Representatives, Chairs

PS. I would like to thank Tom Shirley, Jack Moller, Lee Chamberlain and all others that contributed to this Everglades project. Hopefully this booklet will help our legislators make the right decision in the restoration plan of the entire Everglades ecosystem.

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TOM SHIRLEY

5120 SW 172 AVENUE – FT. LAUDERDALE, FL 33331 Tel: 954-434-8416

February 14, 2000

The purpose of this packet is to inform the Untied States Congress and other conservation organizations of the misguided direction that has been taken by the Everglades restudy team. The current Army Corps of Engineers recommendations on how to restore the Everglades are not correct.

It should be clearly understood that I do not object to the 8.4 billion dollar Everglades Restoration Program. I do object to the restudy team's recommendations concerning water depths. The water depths they are seeking will cause further destruction of the Everglades. I have extended much effort in assembling a document of written materials with photographs. Some of these photographs were taken in the late 1950's, others from later periods and several during the high water crisis in 1999.

Enclosed is a copy of the US Army Corps of Engineer's (USACE) public relations document they are using to sell their Everglades restoration plan. It is my opinion that this document does not illustrate what they are really about to do under the name of restoration. My documentation accurately shows what the USACE will really accomplish.

I have used copies of the USACE graphs showing water depths taken by me in the 1940's and 1950's. This was before water managers made dramatic high water depth stages in the Everglades. It is very important for one to understand that water depths of more that fifteen (15") inches for more than a six (6) week period will cause death and destruction to animal and plant life. It is imperative that everyone working on the Everglades restoration plan to recognized this very important fact. The proper seasonal water depth creates life or destruction in the Everglades ecosystem.

The toxic pollution, methyl-mercury and cattails increase due to deeper water is not being addressed in the restoration plan. The high water depths will destroy the Florida Panther (Endangered Species), Everglades Mink (Threatened Species), and sixty-six (66) other animals and plants.

Politics is very strong and effective in Florida thus we find it necessary to go outside of our own state to seek help to <u>"Save The Everglades"</u>. Floridians need your help to, <u>"Protect the Remaining Everglades"</u> and make sure the 8.4 billion dollars of American taxpayers dollars is not spent to make the Everglades Conservation Areas into a water storage area for Florida's rapid urban and agricultural expansion.

I am asking Congress to show leadership in making sure the US Army Corp of Engineers plan is revised to really save all of the remaining Everglades. If this is not done than the USACE used Everglades Restoration as a sales promotion to get billions of tax dollars to generate jobs and to further destroy the Everglades. I would appreciate each of you to take the necessary time to study and review the contents of this booklet. Your leadership is sincerely needed to protect the remaining Everglades for the enjoyment of future generation. Remember natural seasonal water flows took thousands of years before Christ was born to create this beautiful ecosystem called the Everglades. It has taken the Army Corps of Engineers to destroy most of it only 100 years. We ask that you take the necessary leadership actions to stop the Everglades from being yet another DEAD ZONE.

Respectfully Yours, TOM SHIRLEY

Tom Shirley

C.3-1115

Francis S. Taylor Outdoorsman of the Year

TOM SHIRLEY

Tom Shirley, this year's winner of the Francis S. Taylor Outdoorsman of the Year award was chosen because of the same concern for conservation and for protecting the Everglades that Franny Taylor is remembered for.

Growing up in the Everglades, Shirley eventually came to work there as an officer of the Florida Game and Fresh Water Fish Commission. His interest in the health and welfare of the Everglades ecosystem has more recently led him to become involved with the Everglades Restudy process.

In that effort, and although now retired from the Commission, Tom still carries a steady stream of government agency representatives into the Everglades to show them firsthand the destruction of the uplands and wildlife caused by bad water management practices. Once he became involved in the Restudy, Tom used his own instruments and knowledge of the area to determine that the

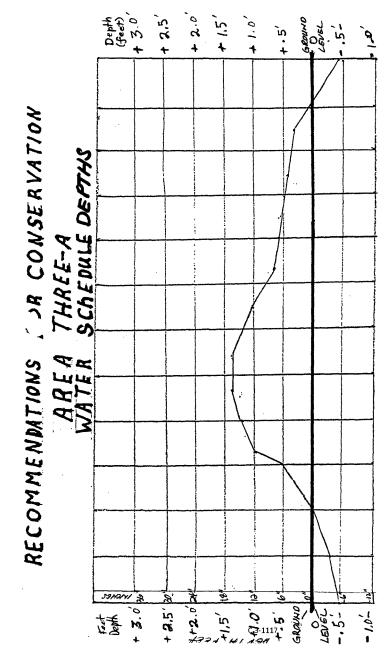


plan, as it was originally presented by the U.S. Army Corps of Engineers, would drown many of the upland tree island habitats.

Tom has worked tirelessly to save the Everglades and make sure everyone is aware of the consequences of an improperly constructed Restudy, and he has spent numerous days at his own expense working to educate society about the dangers facing the Everglades.

For these efforts on behalf of conservation, the Florida Wildlife Federation is proud to name Tom Shirley as the winner of the Francis S. Taylor Outdoorsman of the Year award for 1999.



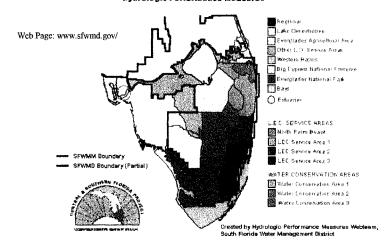


MAY JUNE JULY AUG. SEP. OCT. NOV. DEC. JAN. FEB. MAR. APR.

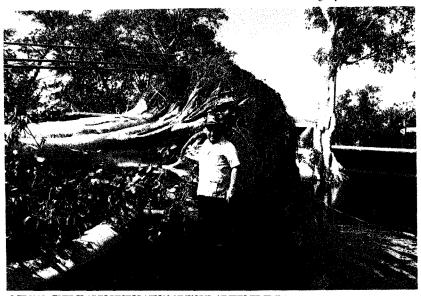
THIS WATER SCHEDULE RECOMMENDATION REPRESENTS LOCATIONS (TO MILES SOUTH OF THE THE NORTH END OF AREA THREE. THOUGHT IS, THE NORTH IS TWO FT. HIGHER THAN THE SOUTH END. THE WATER TABLE WOULD DESCADE TO THE SOUTH FOLLOWING 3 MONTHS. GROUND WOULD BE MOIST ENOUGH TO RESIST BURNING DURING MORMAE.DRYSESEASON. RECOMMENDATIONS FROM TOM SHIRLEY

I.A

Central & Southern Florida Project Comprehensive Review Study Bydrelegic Performance Measures



lick on one of the above areas to view the Performance Measure graphics for that area



OCT 1999 - EVERGLADES RESTORATION AT WORK, AT THIS TIME, WATER LEVELS NEAR RESTORATION RESTUDY DEPTHS AND ARE RAPIDLY KILLING THE EVERGLADES ECOSYSTEM.

The Everglades are drowning in their own tears

JAN 20, 2000

Dexter Lehtinen, a former U.S. attorney, filed the original Everglades lawsuit against the state and South Florida Water Management District and now represents the Miccosukee Indian Tribe.

A tragedy is unfolding in the Forida Everglades. The heart of the Everglades — the 752 square miles OEXTER

of fresh-water Everglades prairie marsh,

prairie marsh,
studded with tree islands and
teeming in biodiversity, known
as Water Conservation Area
3-A — is drowning. And once
its tree islands are washed
away and its biodiversity transformed into a dull monocul-

LEHTINEN

ture, once the area is dead, it cannot be brought back to life. In December 1999 a Florida Fish and Wildlife Conservation Commission representative concluded that the conservation area "has degraded more in the last five years than in the entire 40 years before." The threat comes from destructive, high-water levels due to closing the gates along Tamiami Trail and bad water-management policies.

Does anyone care? Will anyone act?

The legal responsibility for protecting this precious resource rests with several state agencies. Ideally the federal government should care as well. Therein lies another problem: The federal government doesn't care, because it doesn't own the conservation area, even though the Everglades within it and within Everglades National Park compose the

"River of Grass."

The state agencies responsible for the conservation area include the governor and Cabinet sitting as trustees of the Internal Improvement Fund (it holds the legal title), the Fish and Wildlife Conservation Commission (it's responsible managing wildlife resources) and the South Florida Water Management District (it's supposed to manage the water). But, in fact, the Central Everglades is an orphan, a beautiful child with unlimited potential but not worth the political trouble of fighting for.

No one expresses the belief that the conservation area isn't worth protecting. No one says that the Central Everglades should die. But all know that the current high-water levels will kill it, and no one will take

*

Does anyone care? Will anyone act?

responsibility for saving it.

We know, of course, that Water Conservation Area 3-A is not a living being, but from the air it appears so — a beautiful living creature struggling in a snare set by a twin sister, Everglades National Park.

Only a metaphor? Rain comes naturally in the Ever-glades ecosystem like tears, and rain, like tears, flows away naturally. But, if blocked, tears build to deadly levels. That's what's happening: The conservation area is drowning in its own tears.

There is no flood-protection,

human-health or property-right reason for holding the water back. Officials simply have found that they can use the artificial barriers along Tamiami Trail to protect the park, requiring Conservation Area 3-A to absorb any natural events or conditions that they don't like.

The conservation area and park were once one, but that relationship is now denied and disavowed as if the conservation area were some distant, no-account relative. The Department of the Interior uses the bridges and gates along Tamiami Trail to hold water levels artificially low south of the trail in the park and artificially high north of the trail.

This is being done so that about 10 percent of a subspecies of a bird that moved into

the artificially dry area (away from its 1977 officially declared "critical habitat") will not have to move again. Artificial, unnatural conditions are created in the name of "nature."

It wouldn't take much to save the Central Everglades: Just pull the plugs that block the flow of water, just open the drains, open the gates. The urban and agricultural areas to the east and west would not be harmed. In fact, flood protection would be improved because the water would flow through the Everglades naturally, where it belongs.

The Central Everglades needs a leader who, to paraphrase Abraham Lincoln describing the Mississippi, will enable "the mighty river to once again flow unvexed to the sea."

DEC. 11, 1998

TO: MR JACK MOLLER 610 N.W.93 AVE PEMBROKE PINES, fla 33024

TOM SHIRLEY 5120 S.W. 172 AVE. 33331

PH. 954 4348416

DEAR MR MOLLER:

IN 1955 I BECAME EMPLOYED BY THE GAME AND FRESH WATER FISH COMMISSION. I RETIRED 30 YEARS LATER IN 1985. I NOW OWN AND OPERATE TOM SHIRLEYS EVERGLADE TRAVEL TOURS INC. DURING MY EMPLOYMENT WITH THE COMISSION I WAS IN CHARGE OF THE EVERGLADES, BIG CYPRESS, 10,000 ISLANDS AND THE FLORIDA KEYS. DURING THIS PERIOD I HAVE WITNESS MUCH DESTRUCTION WHICH WAS NOT NECESSARY. DURING THE PAST 48 YEARS I HAVE GAINED MUCH EXPERIENCE CONCERNING THE VARIATIONS OF THE SEASONAL WATER TABLES AND THE EFFECT IT HAS ON THE ENVIRONMENT. WHEN THE WATER RISES 18 INCHES OR ABOVE, IT HAS A DRASTIC EFFECT ON THE MANY MAMMALS, REPTILES, AND BIRDLIFE. UNDER THESE STRESS CONDITIONS OF SIX WEEKS YOU CAN EXPECT SOME OF THE WILDLIFE TO BEGIN DYING OFF SUCH AS DEER, RACOON, BOBCAT, POSSUM, OTTER, RODENTS AND SNAKES. THE GROUND LOSES ITS SOLID BODY BECOMMING SOFT TO SUPPORT THE TREE. THE ROOTS ROT FROM BENEATH AND THE TREE FALLS AN DIE

THIS CONDITION MENTIOED ABOVE IS NOW TAKING PLACE THROUGHOUT THE CONSERVATION AREA THREE BECAUSE OF THE STRESS CAUSED BY THE EXCEPTIONAL HIGH WATER TABLE.

WHILE REVIEWING THE RESTUDY TEAM RECOMMENDATIONS TO THE ARMY CORPS OF ENGINE-ERS DRAFT PLAN ALT DI3R IT BECAME VERY OBVIOUS THAT THE WATER SCHEDULE WAS ENTIRELY TOO HIGH WITH-IN THE EVERGLADES. IF THIS SCHEDULE IS FOLLOWED THROUGH IT WILL DESTROY THE WILDLIFE THE ECOLOGY AND THE BEAUTIFUL ISLAND HAMMOCKS THROUGHOUT CONSERVATION AREA THREE. THIS MISTAKE WAS MADE IN AREA TWO AND THERE ARE NO TREE ISLANDS LEFT. AREA TWO HAD MORE TREE ISLANDS THAN AREA THREE BUT ALL TREE ISLANDS WERE DISTROYED FOR EVER. LET US HAVE THE KNOWLEDGE TO NOT DESTROY ANOTHER LARGE SECTION OF OUR NATURES WONDER OF THE EVERGLADES. ON DECEMBER THE NINTH AND TENTH MYSELF AND OTHERS MADE A TRIP INTO AREA THREE TO SEE WHAT SUCH A SCHEDULE WOULD HAVE ON THE ISLANDS. OUR USE OF A TRANSIT AND VARIOUS MEASUREMENTS REVEALED THAT MOST ALL OF THE ISLANDS WOULD BE UNDER WATER. WE SERVEYED SEVEN ISLANDS WORKING FROM THE NORTH SOUTHWARD.

ISLAND NO. I RECORDS ISLAND 13 INCHES UNDER WATER AT HIGH PERIODS. ISLAND NO. 2 RECORDS ISLAND 14 INCHES UNDER WATER AT HIGH PERIODS. ISLAND NO. 3 THE HIGEST ISLAND IN THE AREA RECORDS \(\frac{1}{2} \) INCH ABOVE WATER. ISLAND NO. 4 RECORDS ISLAND 4½ INCHES UNDER WATER AT HIGH PERIODS. ISLAND NO. 5 RECORDS ISLAND 5 INCHES UNDER WATER AT HIGH PERIODS. ISLAND NO. 6 RECORDS ISLAND 8 INCHES UNDER WATER AT HIGH PERIODS. ISLAND NO. 7 RECORDS ISLAND 10 INCHES UNDER WATER AT HIGH PERIODS. THE GOVERNMENT HAS AUTHORIZED THE CUTTING UP THE EVERGLADES IN PIECES WHICH ONLY DESTROYED THE NATURAL ENVIRONMENT ECOLOGY OF THE EVERGLADES. I WAS A WITNESS TO THIS BECAUSE I WAS THERE DURING ALL THE CRISIS. WITH \$9 BILLION BUDGET REQUEST I ONLY HOPE THE U.S. ARMY OF ENGINEERS WILL NOT AGAIN DESTROY ANOTHER PARTIAL BUT RETURN THE ECO SYSTEM BACK THE WAY IT WAS. OUR EVERGLADES IS THE ONLY ONE IN THE WORLD. THIS WATER SCHEDULE REQUEST WILL DESTROY THE AREA THREE EVERGLADES AND ONLY TO BE READ ABOUT IN OUR HISTORY BOOKS.

THE VARIOUS AGENCIES NOW HAVE THE POWER AGAIN TO DESTROY OR TO SAVE IT FOR OUR FUTURE GENERATIONS AND GRANDCHILDREN. I HOPE THAT HISTORY WILL NOT REPEAT ITSELF AGAIN.

IF I CAN BE ANY ASSISTANCE, I AM A PHONE CALL AWAY. SINCERELY YOURS, C.3-1120

PAGE ONE

JAN 4, 1999

TOM SHIRLEY 5120 S. W. 172 AVE. FT. LAUDERDALE, FLA 33331 PH. 954-434-8416

TO WHOM IT MAY CONCERN:

IN REVIEWING THE RESTUDY TEAM AND THE ARMY CORP OF ENGENEERS DRAFT COMPREHENSIVE PLAN ALT D13R CONCERNING THE WATER TABLE DURATION CURVES WITH-IN THE CONSERVATION AREA THREE (3) I FIND THAT IT FAR EXCEEDS THE WATER TABLE CONDITIONS THAT WERE IN PLACE BEFORE THE MAN MADE STRUCTURES WERE PUT IN THE EVERGLADES. IT DOES NOT COME ANYWHERE CLOSE TO REPRESENTING THE EVERGLADES ECO SYSTEM ON A SEASONAL BASIS.

AS I HAVE MENTIONED BEFORE I HAVE PATROLED THIS AREA FROM 1949 UNTIL NOW (49 YEARS). IN THE EARLY YEARS BEFORE THE EVERGLADES WERE EFFECTED BY ALL THE MAN MADE STRUCTURES IT WAS VERY IMPORTANT THAT WE KNEW WHAT THE WATER TABLE WAS THROUGH OUT THE AREA. IF WE MADE A MISTAKE IN JUDGEMENT IT COULD RESULT IN A VERY SERIOUS SITATION, HAVING TO BE STRANDED FOR SEVERAL DAYS OR MORE. WALKING WAS SOMETIMES IMPOSSIBLE BECAUSE OF THE 10 FOOT TALL SAWGRASS STRANDS WHICH WERE BETWEEN YOU AND THE AIRBOAT LANDING MAYBE 50 OR 60 MILES OUT FROM WHERE YOU DEPARTED. IF YOU TOOK A SHORTCUT TO TRY AND SAVE FUEL YOU BETTER KNOW WHAT THE WATER CONDITIONS ARE OR THE RESULTS COULD BE VERY SERIOUS TROUBLE. SPENDING SEVERAL NIGHTS IN THE EVERGLADES WITH THE MISQUITOS CAN BE PRETTY ROUGH. AFTER YEARS OF EXPERIENCE YOU CAN LEARN THAT READING THE WATER TABLE LEVELS AT ONE POINT YOU WOULD KNOW WHAT THE WATER TABLE WOULD! BE

I AM FORWARDING A WATER STAGE DURATION CURVE WHICH BEST REPRESENTS THE EARLY WATER TABLE OF THE EVERGLADES ECO SYSTEM. THE GRAFT REPRESENTS ONE FULL YEAR FROM MAY TO THE FOLLOWING MAY.

MUCH CONSIDERATION HAS BEEN GIVEN TO ALL THE VARIOUS TYPES OF WILDLIFE, BIRDS, REPTILES. FISH. INSECTS AND THE PLANT LIFE,

MAY THE WATER IS APPROXIMATELY 6 INCHES UNDER THE GROUND, THE GROUND HAS DRIED UP WHICH HAS MADE IT VERY HELPFUL FOR THE ON COMING SEASON. THE SUN HAS NOW DRIED THE GROUND AND KILLED THE HARMFUL FUNGUS AND BACTERIA WHICH EFFECT THE FISH. THE GROUND NOW BECOMES MORE SOLID AFTER THE HIGHER WATER HAS CAUSED IT TO BE TOO SOFT TO PROPERLY SUPPORT THE VARIOUS TREES AND PLANT LIFE. WHEN THE WATER RISES AGAIN THE FISH CAN MOVE INTO THE MARSH LANDS TO SPAWN AND LAY THEIR EGGS WITHOUT THE SILT, BACTERIA AND HARMFUL FUNGUS. THIS IS NATURES WAY TO GIVE THE SUN A CHANCE TO CLEANSE THE RIVER OF GRASS.

JUNE & JULY THE WATER TABLE NOW BEGINS TO RISE AND THE GROUND BECOMES WET AGAIN. THE SUMMER LIGHTENING STORMS ARRIVE STARTING MANY GRASS FIRES THROUGH OUT THE GRASS LANDS. THE CATTAILES HAVE TAKEN OVER MUCH OF THE GRASS LANDS. THE FIRE BURNS THE CATTAILES AND DESTROYS THEM. THE SAWGRASS NOW REPLACES THE HARMFUL CATTAILES. AGAIN THIS IS NATURES WAY.

AUG, SEPT & OCT. THE WATER TABLE WILL RISE TO ITS HIGH POINT OF 15 INCHES, THIS IS GOOD FOR THE FISH TO MOVE FUTHER INTO THE MARSH LAND TO SPAWN.

JAN. 4, 1999

PAGE 2

THE EARLY MIGRATION OF WATER FOWL FROM THE NORTH ARRIVE TO FEED ON THE NEW GROWTH IN THE MARSH. THE WATER TABLE IS NOW 15 INCHES AND HAS BEGAN TO PUT STRESS ON THE HAMMOCKS, ISLANDS, THE DEER, RACCON, BOB CATS, OTTER, REPTILES AND THE ENDANGERED EVERGLADES MINK. IF HIGH WATER TABLE DOES NOT DROP VERY SOON WITH-IN 6 WEEKS THE WILDLIFE WILL BEGIN DYING OFF. THE WATER IS NOW TOO HIGH FOR THE HERONS, IBIS, EGRETS AND OTHER BIRDS. THE WATER IS NOW OVER THEIR HEADS AND MOST OF THE BIRDS CANNOT FEED.

NOV, DEC, JAN, FEB. NOW THE WATER TABLE IS BEGINNING TO RESIDE. NOW THE STRANDED MAMMALS CAN LEAVE THE HAMMOCKS AND BEGIN TO FEED IN THEIR NORMAL FASHION. NOW THE SURGE OF MIGRATORY BIRDS FROM CANADA AND SOUTH AMERICA COME DOWN TO THE EVERGLADES FOOD BASKET OF MANY FISH, CRAYFISH, SHRIMP, INSECTS, SNAKES, FROGS AND MUCH MORE. THE FEEDING CONDITIONS ARE SO GREAT THAT THE BIRDS WILL SURELY COME AGAIN NEXT YEAR.

MARCH, APRIL NOW THE WATER TABLE HAS BEEN GETTING VERY LOW AND THE FISH AND OTHER FOODS ARE GETTING STRANDED IN SHALLOW BODIES OF WATER IN THE SLOUGHS. NOW THE FOOD IS ABUNDANT FOR THE BIRDS, RACCONS, OTTERS, PANTHERS AND THE ALLIGATORS. THE FOOD IS SO ABUNDANT THAT THE ALLIGATORS HAVE ENOUGH FOOD TO BUILD UP ENOUGH FAT WITH-IN HIS BODY TO LAST HIM UNTIL THE NEXT DROUGHT PERIOD. THE ALLIGATOR WILL NOT HAVE TO EAT OTHER ALLIGATORS TO FULFILL HIS HUNGER. THE CONDITIONS HAVE BEEN SO FAVORABLE FOR THE WOOD STORKS, IBIS HERONS AND MANY OTHER BIRDS. THE EVERGLADES IS NOW FAVORABLE AND CAN NOW HAVE THEIR ROOKERIES AND NESTING AREAS FOR THEIR YOUNG. THE MANY REPTILES TURTLES AND INSECTS CAN HAVE THE DRY GROUND TO LAY THEIR EGGS. THE ALLIGATOR CAN NOW BEGIN TO LOOK FOR THE AREA IN WHICH TO BUILD ITS NEST. THE FOOD CHAIN FOR THE WILDLIFE, FISH AND PLANT LIFE HAS BEEN COMPLETED. THE FOLLOWING YEAR WILL BE MUCH MORE PRODUCTIVE, AS THE ADULT AND JUVENILE BIRDS WILL BE ENCOURAGED TO RETURN TO THE EVERGLADES GREAT FEEDING AREA.

- I DO NOT BELIEVE THAT THE BEST OF THE COMPUTERS HAS MORE KNOWLEDGE THAN THE DIRECT EXPERIENCE. ONE GREAT ADVANTAGE IT DOES HAVE, IF SOMETHING TURNS OUT WRONG, THE COMPUTER CAN BE CALLED TO BLAME BUT THEN IT WILL BE TO LATE TO BRING LIFE BACK INTO THE EVERGLADES.
- I DO NOT BELIEVE THAT IT IS NECESSARY TO DESTROY ANOTHER LARGE SECTION OF THE EVERGLADES TO SAVE ANOTHER PORTION. IT IS NOT NECESSARY TO FLOOD THE AREA NORTH TO PUSH WATER SOUTHWARD TO THE EVERGLADES NATIONAL PARK. WE MUST REMEMBER THAT IT IS ONE ECO SYSTEM AND MUST BE TREATED AS SUCH.

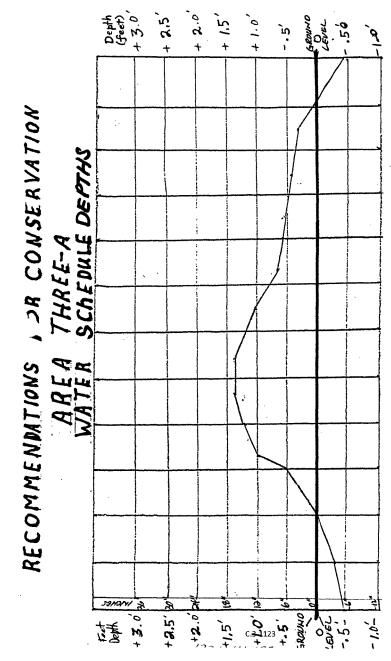
AFTER THE 1947 HURRICANE AND THE FLOOD CONTROL WAS FORMULATED THE UNITED STATES GOVERMENT HAD WRITTEN LAWS VERY SPECIFIC CONCERNING THE PROTECTION OF THE ECOLOGY AND THE WILDLIFE. THE PROBLEM WAS THAT THERE WERE NO LAW ENFORCEMENT TO STEP FORWARD TO FILE CHARGES. NOW THE POLITICIANS HAVE GAINED POWER AND CONTROL AND NOW ARE JUST BEFORE DESTROYING ALL OF THE EVERGLADES NORTH OF HIGHWAY 41.

IF THE CORP OF ENGINEERS AND THE WATER MANAGERS WATER SCHEDULES ARE APPROVED BY CONGRESS THIS WILL MEAN THAT CONGRESS HAS SIGNED A \$78 BILLION CONTRACT TO KILL THE EVERGLADES ECO SYSTEM. THIS IS THE ONLY EVERGLADES IN THE WORLD LET US KEEP IT.

THE FLA. GAME AND FRESH WATER FISH COMM. IS CHIEF CUSTODIAN OF OUR FISH AND WILDLIFE AND WE TRUST THAT THEY WILL HAVE THE KNOWLEDGE AND COURAGE TO NOT LET SUCH A DESTRUCTION OF OUR EVERGLADES TAKE PLACE.

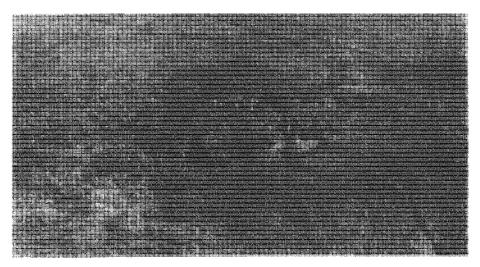
I REMAIN,

TOM SHIRLEY

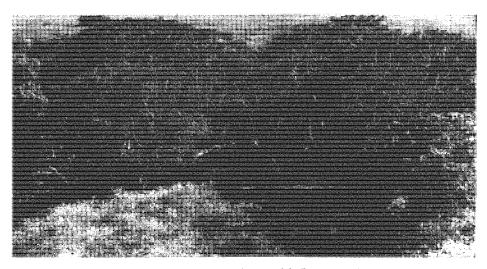


MAY JUNE JULY AUG. SEP. OCT. NOV. DEC. JAN. FEB. MAR. APR.

THIS WATER SCHEDULE RECOMMENDATION REPRESENTS LOCATIONS (10)MILES SOUTH OF THE THE NORTH END OF AREA THREE, THOUGHT IS, THE NORTH IS TWO FT. HIGHER THAN THE SOUTH END. THE WATER TABLE WOULD DECRADE TO THE SOUTH FOLLOWING 3 MONTHS, GROUND WOULD BE MOIST ENOUGH TO RESIST BURNING DURING NORMAL DRY: BESOMMENDATIONS FROM TOM SHIRLEY



PICTURE #1 - HENSCHEL'S HAMMOCK - Water Conservation Area 3A North - Photo taken in 1957 of the highest and largest hammock in the Everglades.



PICTURE #2 - HENSCHEL HAMMOCK - Everglades WCA 3A - North Notice the beautiful foliage with many large trees. Since this picture most of the plants and wildlife have been killed off due to the water being held exceptionally to high and for too long a period.



Fresh Water Fish and Game Commission Officer Vie Heller Oct 27.19.19....checks yearling deer which apparently starved on an island

Evidence Deadly As Judge Tours Everglades Water

By FRED GRIMM Herald Statt Writer

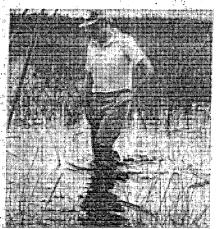
Nature's opening argument was stark and awful. A dead deer, its flesh cleaned away by the buzzards, lay on a little knoll rising out of the sawgrass flats.

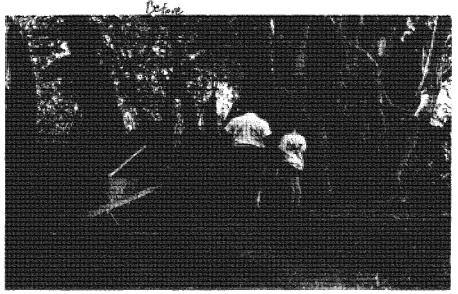
Most of the foliage had been eaten way from the tiny Everglades island, surrounded by black water, 20 linches deep. The yearling had finally starved.

Palm Beach Circuit, Judge Thomas Sholts waded through the water around the knoll and then on shore to the pile of two and bone. The ludge propert five hours

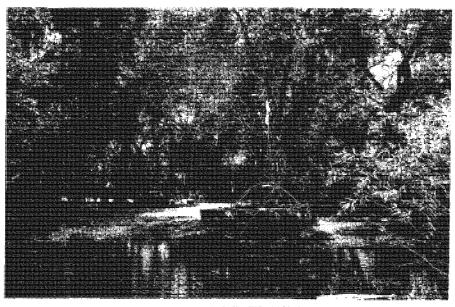
to the pile of fur and bones. The judge spent five hours in the Broward Everglades Friday to help him decide

the validity of a lawsuit by two conservation groups that want him to order the South Florida Water Man-

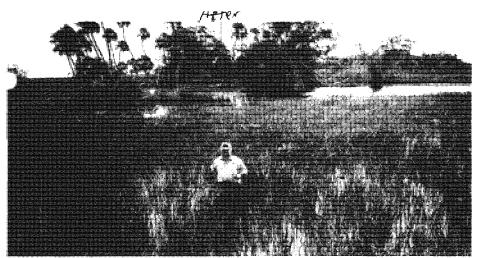




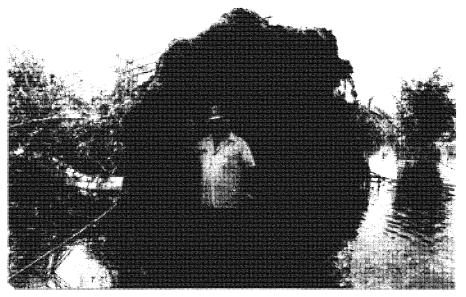
PICTURE #3A - HENSCHELS HAMMOCK - PHOTO TAKEN 1957 - WCA 3A - NORTH
This Fig Tree was several hundred years old. This hammock was flooded when the water managers held
back eighteen (18") of water while trying out a new WIER SYSTEM in the Everglades. This Fig tree and
several others like it were stunned and killed by excessive high water levels.



PICTURE #3B- HENSCHELS HAMMOCK - WCA 3A North Photo taken in 1957. A healthy hammock stands for a healthy Everglades ecosystem. C.3-1126



PICTURE #4 - HENSCHELS HAMMOCK TODAY - Tom Shirley standing in water in Front of Henschels Hammock Photo taken DEC 1999 - WCA 3A North - This is the same hammock as prior pictures #1,2,3A & 3B. Today most of the native plants, shrubs & large trees have been destroyed by high water. Much of the tree island has eroded. This is an example of what has taken place hrough out the Everglades due to high water levels. Now the US Army Corp of Engineers are for a much higher water schedules.



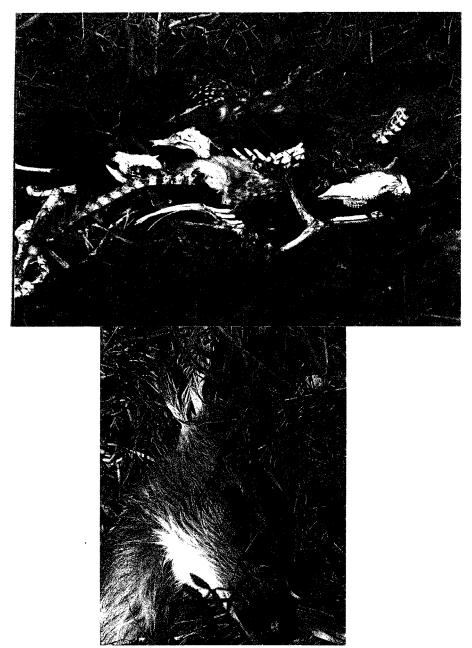
PICTURE #5 - TOM SHIRLEY & FALLEN FIG TREE
Fig tree hundreds of years old fallen because roots have rotted away leaving no support.
Note no large roots attached. This problem is now affecting most all fig trees. Higher
water schedules are recommended by the water management study team.



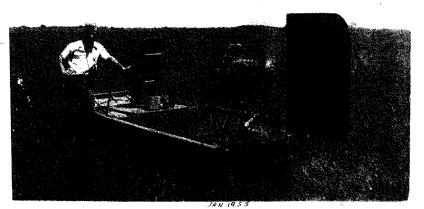
PICTURE # 6 -BUCK DEER FEEDS ON TREE - Doe and fawn deer will die before the buck deer. Note the buck deer is now standing and feeding on pepper tree. Note the dead fig tree in the foreground.



PICTURE #7 - EVERGLADES ALLIGATOR—This 7 ft. Alligator was barely alive. At the present time they have no other vertebrates to feed on and there systems are full of toxic chemicals. The Everglades alligator weighs 30% less than the Central and North Florida alligators. This Alligator was brought in for the state to do a tissue study to determine the cause of death. The state agency rejected the findings for political reasons. High water conditions have seriously affected the Everglades alligator.



PICTURES #8A & 8B—EVERGLADES DEER in WCA's Wildlife in the Everglades starts to die off when the water level rises to fifteen inches (15") or more, and is stored or held for more that six (6) weeks. The deer herd in the Everglades Conservation Areas have been reduced from thousands to only a few hundred over the past 30 years due to managed high water levels.



PICTURE #9 - JANUARY 1955 - TOM SHIRLEY & AIRBOAT ON DRY GROUND - WCA 3A NW SECTION- Everglades location was annually dry during this time of year. This area was prime bird and wildlife habitat. Restudy Team recommends 30 inches of water or more for this location.



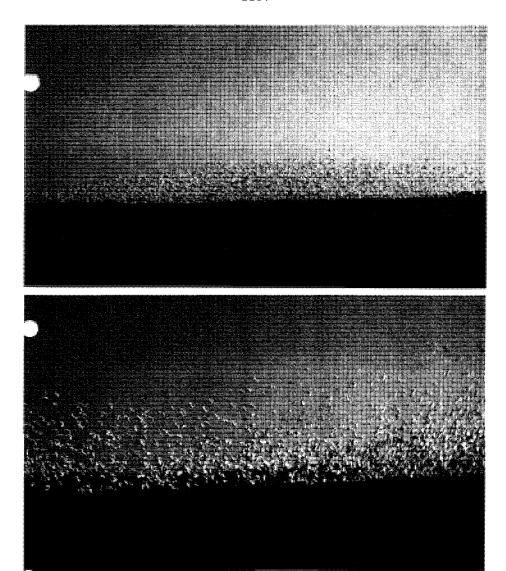
PICTURE #10 - FLORIDA PANTHER HABITAT 1999 - PHOTO taken DEC 1999
The Federal & State Governments have approved millions of dollars for Florida Panther habitat studies. Photo shows what 36 inches of water depth looks like in the Panther habitat. Panthers will not survive in such high water tables.



PICTURE #11 FLORIDA PANTHER
The Florida Panther can tolerate low water tables and schedules as shown in this picture



PICTURE #12 FLORIDA PANTHER Florida panthers and all vertebrates need dry ground to live, feed and bear their young.



PICTURE #13 & 14 - FLOCKS OF BIRDS-Picture taken in Everglades Water Conservation Area 3A North During the 1940's and 1950's Large flocks of wood storks, Ibis and herons were very common. Many flocks such as these were observed while traveling north of highway 41 to Palm Beach County. Proper seasonal water depth was very productive for many forms of wildlife and vegetation.



PICTURES #15 & 16 A properly restored Everglades can again be a glorious nursery for all the great varieties of wildlife and native plants. If we truly manage the seasonal water flow and depth as it was before man destroyed it

JAN, 21, 1999

GOVERNOR BUSH TALLAHASSEE. FLA. 32399

TOM SHIRLEY 5120 S.W. 172 AVE. FT. LAUDERDALE, FLA. 33331 PH. 954 4348416

DEAR GOVERNOR BUSH,

I WISH TO CONGRATULATE YOU ON BECOMMING OUR NEW GOVERNOR FOR THE STATE OF FLORIDA. WHILE YOU WERE ON THE CAMPAIGNTERAILTINEDAYLETI MAS PRIESED TO MEET YOU. YOU IMPRESSED ME OF ONE TO BE HONEST AND TO STAND UP FOR THE RIGHT AND HAVE THE COURAGE TO STEP FORWARD TO TRULY PROTECT THE FLORIDAS NATURAL RESO-URCES. YOUR BROTHER AND FATHER HAVE EARNED THE HONOR AND RESPECT OF THE AMERICAN PUBLIC. I AM SURE YOU WILL ALSO.

I KNOW THAT YOU HAVE A VERY BUSY SCHEDULE IN CARRING OUT YOUR RESPONSIBILITIES AS GOVERNOR. I FIND IT VERY NECESSARY TO INFORM YOU OF A TRUE CRISIS THAT HAS DEVELOPED CONCERNING THE ARMY CORP OF ENGENEERS AND SOUTH FLORIDA WATER MANA-GERS CALLED THE EVERGLADES RESTUDY TEAM. THEY HAVE SUGESTED WATER TABLE REGULATIONS THAT WILL DESTROY THE EVERGLADES FOREVER.

IN EFFORT TO SAVE THE EVERGLADES FOR OUR GRANDCHILDREN AND AMERICAN TO TREAS-URE AND ENJOY, I FIND IT VERY NECESSARY TO ASK FOR YOUR HELP. I DO NOT WISH TO DRAMATIZE THIS SITUATION BUT TO STRESS THE IMPORTANCE OF IT BEING ADDRESSED AND CORRECTED BEFORE IT IS WRITTEN INTO LAW.

I HAVE SPENT A CONSIDERABLE AMOUNT OF TIME TO MAKE MY OWN STUDY CONCERNING THE FORE-SEEN PROBLEM CONCERNING THE PLANNED DESTRUCTION OF OUR EVERGLADES.I AM FORWARDING TWO ATTACHED LETTERS (DEC. 11 @ JAN.4) WHICH WILL INFORM YOU WHAT HAS TAKEN PLACE.

THE ARMY CORP OF EGENEERS AND THE SOUTH WATER MANAGERS HAVE SUCH CLOUT ABOVE OTHER AGENCIES THAT THEY DO NOT STEP FORWARD AND CARRY OUT THERE RESPONSIBIL-ITIES IN PROTECTING OUR ECO SYSTEM, PLANT LIFE, BIRDS AND WILDLIFE. WITHOUT THERE INVOLMENT THE EVERGLADES WILL BE LOST FOREVER. THE PROBLEM LIES WITH THE TOP MANAGERS OF SAID AGENCIES WHO ARE RESPONSIBLE FOR OUR WILDLIFE AND FISH WITH-IN FLORIDA. THEY ARE NOT PUTTING FORTH THE NECESSARY EFFORT TO PROPERLY REPRESENTING THE EVERGLADES ECO SYSTEM.

THIS PROBLEM MUST BE ADDRESSED AS SOON AS POSSIBLE AS THE FINAL REPORT AND APPROVAL WILL BE SENT TO CONGRESS NEXT JULY. THIS OVERHAUL OF THE EVERGLADES WILL COST THE TAX PAYERS \$7.8 BILLION.

THE EVERGLADES DESTRUCTION OR THE KEEPING OF ONE OF THE WORLDS NATURAL WONDERS WILL DEPEND ON SOMEONES STERIKE COF AA SPEN.

GOVERNOR JEB BUSH, WE ARE ASKING FOR YOUR HELP.

ATT: J ALLISON DEFOOR II

SINCERELY YOURS.

SINCERELY YOURS,
TOM SHIRLEY Jam Sherles C.3-1134

2 March 1999

Governor Jeb Bush Tallahassee, Florida 32399

Dear Governor Bush,

I find it necessary to inform you of a very serious problem concerning our natural wonder, The Everglades.

The Everglades are now being re-evaluated, again. This 8.4 BILLION DOLLAR project could reproduce our natural Everglades as we once knew it or the project could destroy it forever. Because of my concern I called a meeting. I felt it was very important to acquire valuable information and descriptions from men who had alot of experience with the Everglades. Many of the men have made there living in the Everglades for 40 to 60 years. The older individuals came from many walks of life; froggers, trappers, commercial fisherman, recreational users and older Florida Game and Fish employees. There knowledge is extremely valuable in starting to re-build the vast Everglades before the destruction and modifications made by man.

I feel it is necessary to forward to you our unified thoughts and recommendations concerning the re-building of our Everglades. It is necessary that we be candid with you and relate the good, bad and ugly.

Many years ago Florida Governor Askew, was fighting the battle to save The Everglades. The Governor held a meeting on Miami Beach. All professional people who had knowledge of The Everglades problem were invited to attend. This included water management personnel, hydrologists, biologists, scientists and, many other knowledgable people. The Governor asked all to be non-biased concerning the true thought to save The Everglades from destruction. This body of people was so large that they had to be broken up into three different groups. This meeting was very serious and lasted for three days. All information acquired from the many individuals was formed into one summary. The summary report final analysis recommended that The State of Florida had made a mistake to allow the various farmers to move into the flood plains. They further recommended The State of Florida re-purchase the flood plains and return it to its natural state as The Everglades.

The political power of this union decided to "water down" the summary considerably. They re-wrote the summary three different times, each time the report was "watered down" considerably. The final summary report did not represent the truth. Business went on as usual. Now three to four decades later we are faced with the same battle, only to experience a much smaller Everglades than before, which is ever increasingly dying at a rapid rate.

The Water Management track record speaks for itself. Area number two (2) is a good example. All the islands and hammocks do not exist, and the wildlife is gone.

After the 1947 hurricane and flood control came to be, the water table regulations set forth were not to be harmful to the habitat or The Everglades ecosystem. If it was found to be destructive the water schedules were to be lowered. It would be unlawful for Water Management to willfully cause destruction to The Everglades ecosystem. A cap should C.3-1135

3/2/99 P52

be put on the high water level and persons should be held accountable if they exceed that level. No one should be able to kill The Everglades ecosystem.

The first report from the re-study team water recommendations call for water heights that will drown out tree islands and hammocks the same way that has already killed off Area Two (2). It seems that we connot profit from our mistake. In the part large sections of The Everglades have been killed off to save another section. This approach is not necessary.

The Water Management take away system is not working. The Florida Game and Fresh Water Fish Commission reports that they estimate the deer herd within all of Area Three (3) is 59 deer. The State of Florida should be ashamed to have let this type of thing happen to one of our worlds Natural Wonders, as The Everglades. During the 1960's the deer herd was estimated to be over 10,000. We feel it is well over time to stop the old practices and get serious and truthful by giving a direct approach in saving what little is left of The Everglades.

There is much debate as to what The Everglades water table, wildlife and plant life was during the early years. We highly recommend that we take advantage of the more direct experience that we still have available. The elder men who have spent most all of there lives and livelihood within The Everglades have much direct knowledge of this ecosystem, that would prove to be very beneficial to the natural restoration.

We recommend that a special effort be put forth to locate some of these men who can relate and forward such vital information that may otherwise be overlooked by the study team.

It would be advantageous to appoint a special board of these qualified men to act as advisors to the study team. We are not against spending the 8.4 Billion Dollars, to save The Everglades not destroy it.

Governor Bush, The State of Florida in part has allowed to much destruction of our Everglades. If you as a Texan can address our problem as The Texans did years ago to save your Texas deer herd, we can achieve our goal.

If we can be of any assistance in any manner, please do not hesitate to call on me.

Sincerely Yours,

Sincerely Yours,

Richard

1

8-26-99

Jeb Bush, Governor Tallahassee, Florida 32399

Dear Governor Bush:

I find it necessary to inform you of a very serious problem concerning our Florida Everglades. One of the worlds natural wonders is now on the drawing board to be destroyed forever.

The Everglades restudy team has taken on itself to destroy a vast area lying north of Tamiami Trail (Highway 41). Before their plans are completed and written into law, as Governor I believe it paramount that you address this problem.

I have sent you two letters, one on 1-21-99 and 3-2-99, concerning this problem. These letters are attached along with a news article written 10-27,1979. If we can not learn by the history of destruction it is only evident that it will repeat itself.

Conservation groups of South Florida have been fighting this battle for 33 years and are loosing to the politicians who are not concerned of the destruction of The Everglades, but what benefits them personally.

Large portions of The Everglades hammocks (Area 2) have been completely destroyed. Area 3 is now being destroyed because of very high water tables. The deer herd was over 10,000, today the count is about 53.

You do not have to be a rocket scientist to see that continued flooded conditions have killed off trees, plants, fish, birds and most all mammals.

The restudy team is requesting 8.4 billion dollars only to destroy a big section of The Everglades by continuing to flood out all dry ground within its boundaries.

The water depth should not exceed 15 inches. The restudy team is setting 30 inches or more in depth, which will destroy all hammocks and dry islands leaving no place for the wildlife to exist. Science, proven facts, history and common sense are now loosing out again to politics.

The Game & Fresh Water Fish Commission and The Florida Marine Patrol are now combined in what was expected to be a great force movement to protect Florida's fish and wildlife. "WHAT A JOKE". The newly appointed agency The Florida Fish & Wildlife Conservation Commission is not representing the trees, plants, birds, fish and wildlife, but recommending 30 inches or more of water is two times than The Everglades ecosystem should sustain. The new agency has gave way to the clout of The US Army Corp of Engineers and The South Florida Water Management District. This water table recommendation was a great shock and let down to individuals that are acquainted with the natural Everglades ecosystem.

It appears that the word Everglades was an effective way to make a great sales pitch for 8.4 billion dollars for the Army Corp of Engineers. In this modern day of agencies and there advancement, who are we to turn to, to protect our fish, wildlife and ecosystem?

C.3-1137 2/

The 8.4 billion dollars to save The Everglades (a worlds natural wonder) is a wonderful investment for future generations to enjoy. The procedures which are now taking place, we can only see its destruction forever. The accountability should be addressed. Individuals or agencies are never held accountable for serious mistakes, therefore business goes on as usual followed by destruction.

In 1955 when I became employed by The Game & Fish Commission, I was requested to take an Oath to Protect The State of Florida's natural resources, this included birds, fish, wildlife, plant life and the ecosystem. I cannot turn my head or ignore the procedures which are taking place. Governor Bush, without your leadership to truly save The Everglades it will be lost forever.

If I can assist you in any manner please do not hesitate to call on me.

Sincerely Yours,

Tom Shirley Shirley

Tom Shirley 5120 SW 172 Avenue

Fort Lauderdale, Florida 33331

954-434-8416

CC: Frank R. Finch S.F.W.M.D. Christ Mc Voy S.F.W.M.D. Col. M. Robson F.F.W.C.C. Lorraine Heisler F.F.W.C.C. Steve Coughlin F.F.W.C.C. 20 September 1999

Richard Punnett U. S. Army Corp Of Engineers P.O. Box 4970 Jacksonville, Florida 32232-0019

I am forwarding 1965 through 1995 history water tables recorded in conservation Area 2 and 3. In reviewing the water tables in Area 2 to see what killed off the wildlife and destroyed all the islands. It is very apparent that depth of water over 15 inches was the normal procedures. The restudy teams approval of 30 inches is quite evident that it will completely destroy the wildlife and hammocks throughout Area 3, the same as it did in Area 2.

In 1966 I met with the chief hydrologist, Mr. Miller, of The South Florida Flood Control, he advised that there was not to be any water height within Area 3 that would exceed 18 inches. These regulations not to exceed 18 inches were set forth in its original design. The wildlife and the ecosystem were not to be HARMED. This 18 inch depth set forth has been completely over looked with a complete disregard to its destruction of one of the worlds natural wonders.

The Army Corps of Engineers activities of The Everglades area has killed off Area 2. Apparently this is no concern to them to this date. The approval of 30 inches in Area 3 will completely devastate and destroy The Everglades north of Highway 41. 30 Inches would destroy the Hammocks not create them. This procedure of ignoring what history has proven in Area 2 is down right freightening to me that our own government could go forth with such a plan. I am sure the American Citizens throughout America would be outraged as I am.

I am forwarding copies of Hydrographs of water levels on Area 2 and 3 with my drawings of destruction water depth and dates from 1965 to 1995, and hope that we will not let history repeat itself. There has been much discussion on the history concerning water levels and the making of hammocks and islands. Some reports advise that the water table in The Everglades was as much as 4.5 feet. Review the hydrograph 2A-17 central portion of WCA-2A. The islands were destroyed of water depth well under 30 inches or over 18 inches.

The Everglades as I knew it was a wonderful nursery for all migrating bird life from other parts of the world, such as Canada and South America. It was nature working at its greatest effiency and beauty. I know because I was there to witness the worlds natural wonder working at its peak. It was a glorious sight to see. I was there you should have been.

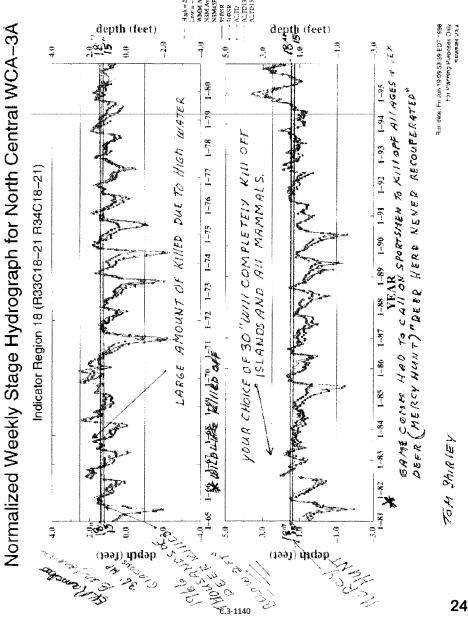
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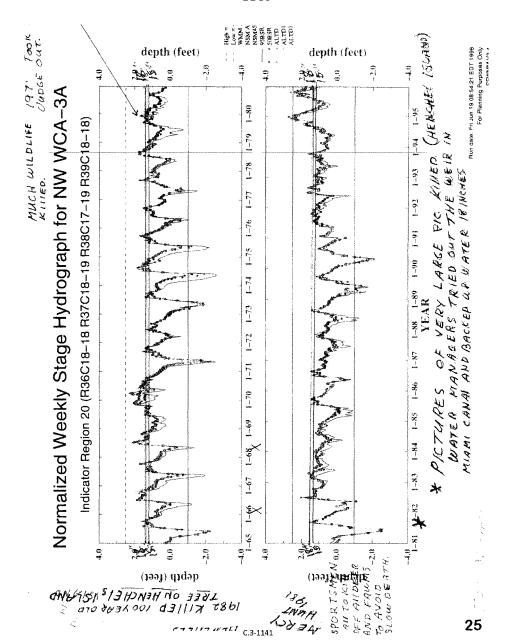
Tom Shirley Shuley

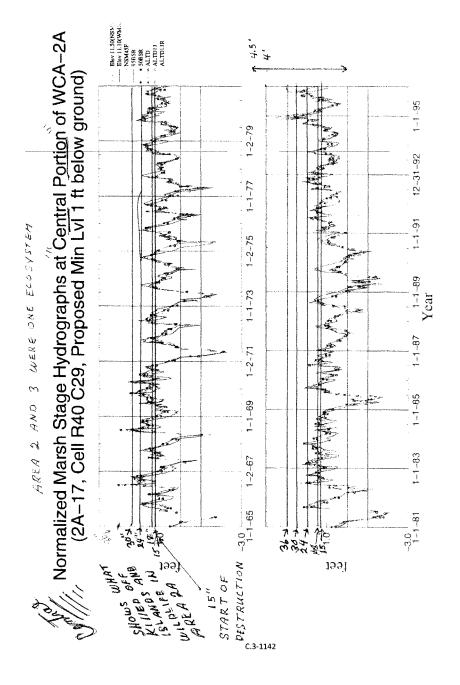
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F. R. Finch, SFWMD

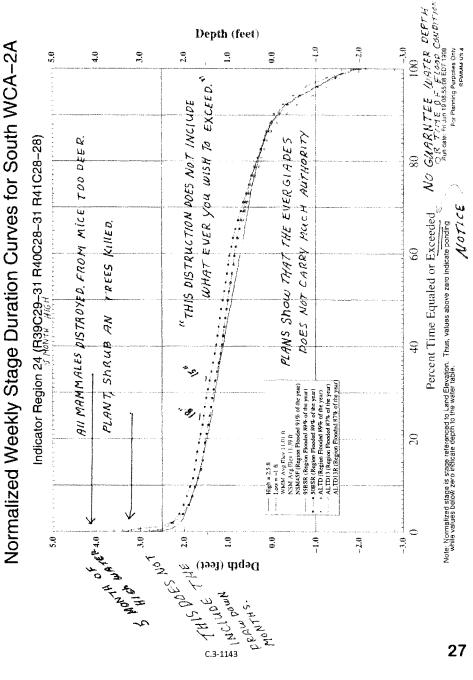
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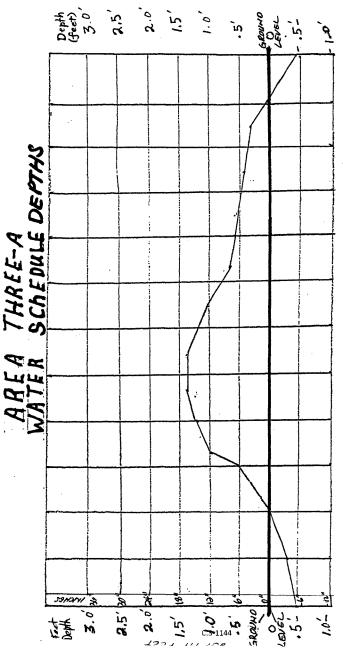




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MAY JUNE JULY AUG. SEP. OCT. NOV. DEC. JAN. FEB. MAR. APR.

THIS WATER SCHEDULE RECOMMENDATION REPRESENTS LOCATIONS (TOWNIES SOUTH OF THE THE NORTH END OF AREA THREE. THOUGHT IS, THE NORTH IS TWO FT. HIGHER THAN THE SOUTH END. THE WATER TABLE WOULD DECRADE TO THE SOUTH FOLLOWING 3 MONTHS. GROUND WOULD BE MOIST ENOUGH TO RESIST BURNING DURING NORMAL DRINGSESON.

RECOMMENDATIONS FROM TOM SHIRLEY

IT IS VERY IMPORTANT THAT WE RECOGNIZE THE BENEFITS THAT NATURES NATURAL WATER CYCLES OF LOW WATER TABLE HAS WONDERFUL BENEFITS. THIS IS THE PERIOD THAT GIVES THE WILDLIFE AND THE ECOSYSTEM THE STRENGTH TO WITHSTAND THE STRESS PERIOD WHEN HIGHER WATER LEVELS ARRIVE. (15 INCHES)

THE DRY PERIOD IS NATURES WAY OF KILLING OFF UNDERSIRABLE PLANT LIFE SUCH AS THE CAT-TAIL AND VARIOUS CHEMICLALS SUCH AS DDT, ETHION, CHLORDANE AND METHYLMERCURY. IT IS REPORTED THAT METHYLMERCURY IN THE EVERGLADES RANKES THE HIGHEST IN THE WORLD. THIS PROBLEM SHOULD BE RECOGNIZED AND ADDRESSED. THE HIGH WATER AND TOXIC CHEMICALES ARE KILLING THE EVERGLADES NOW.

IT IS NECESSARY TO GIVE NATURE A CHANCE TO RETURN IT LIKE IT WAS BEFORE MAN COMPLETELY DESTROYS THE EVERGLADES FOREVER.

23 October 1999

Lorraine Heisler F.F.W.G.C. 225 154 Ave Vero Beach, Florida 32968

Dear Lorraine,

During the past two months I have been making surveys within Conservation Area Three, taking water depth readings, photographing water lines on islands and dead deer. The health of our Everglades is deplorable to say the least.

I received a letter from Professor Harris of The University of Florida. I thought it worthy to forward to you a copy of the letter.

One important question which has never been answered, what do you intend to return The Everglades to?

There is a written plan, Proposed Plans of work for Tree Islands Research Final V.I.O. put out ny The Florida Center for Environmental Studies in South Florida Water Management District. This proposed plan should be activated immediately before all wildlife and fig trees are killed.

I am forwarding some photographs taken prior and after Hurricane Irene. Note these photographs were taken when the slough measured 30 inches. I have tried to let the Restudy Team understand what damage that just 30 inches of water can do. Hopefully the photos will be helpfull. First the deer fall dead second the fig trees fall dead. If Water Management, management practice does not change we will not have any vertebrates or trees left. Maybe the purpose as it was in Area Two. All indications are still moving in that direction swiftly. I am forwarding some photographs and recorded measurements of slough depth and water over islands. I hope you find this information beneficial to your needs.

Photo #1 Was taken on October 19 on EL RANCHO. Which is one of the highest islands south of the The Alley to Highway 41.

On October 19 slough measured 30 inches. Island was $9\frac{1}{2}$ inches under water. Fig trees normally have a strong and vast root system which extend beyond its branches. Note in photo that all roots have completely rotted away. This very serious trend which is taking place throughout Area Three. The only chance for there survival is to manage a natural drought condition to let the soil firm up and air itself which gives the trees a chance to regain its strength to grow a new root system.

Photo #2 September 23. Dead doe off Smoker Island. Slough measured 20"

Photo #3 Dead doe with two fawns, one fawn dead the other alive. Photo was taken before Hurricane Irene on October 14, Slough measured 20".

30

Photo #4
Taken on October 19 on Bergeron Island. Fawn standing on only dry area is wooden walkway. Dead doe and fawn in water. Seven and a half inches of water over the island. One fig tree fallen, the tree with stop sign can fall anytime. Slough measured 30" NOTICE. This island clearly tells us what 30" of water does to vertebrates and plant life. This is why I have tried so hard to make the Restudy Team understand the seriousness of water depths and time tables. These pictures show exactly what I was trying to avoid.

Sincerely,

Tom Shirley

P.S. To say to The Restudy Team "I told you so" does not give me joy, only hurt and bewilderment, that the team can be so far off in understanding the cause of life and death of The Everglades.



Institute of Food and Agricultural Sciences
Department of Wildlife Ecology and Conservation

303 Newins-Ziegler Hall PO Box 110430 Gainesville FL 32611-0430 Tel. (352) 392-4851 Fax (352) 392-6984

September 29, 1999

Mr. Tom Shirley

Dear Tom,

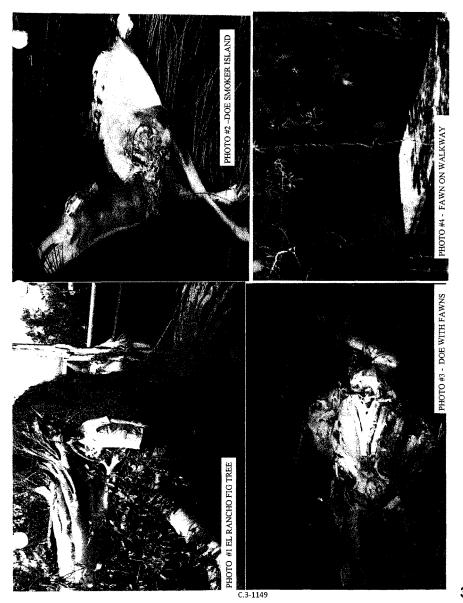
I promised myself that I would not let another day go by without congratulating you and thanking you for your letters to the Governor regarding the Everglades debacle. I have spent a good part of my teen years and all of my adult life trying to conserve wildlife as we once knew it.

I support you 100% on the water issue, but somehow we have all bought into the "river-of-Grass metaphor so much that indeed, that is all we will get. And, of course you know, sawgrass is absolutely the worst thing possible for wildlife. Everything from tree snails to orchids will be lost as the idiots continue to focus on sawgrass impoundments.

l am doing everything I can up here but even those whom you would thing to be our allies have betrayed us in the name of water. Thank God for people like you, at least they will die with a guilty conscience knowing that they knowingly took out all the significan vertebrates that were formerly necessary to shape and sculpt North America's only subtropical paradise!!!!!

Most humbly yours,

Larry D. Harris
Professor Emeritus



Behind The Front Page

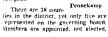
Flood Control Confusion Ankle Deep

A JOHN PENNERAM

N THE NEXT Legislature meets it might undertake to end some of the confusing contradictions which keep the work of the Central and Southern Flood

Control District in urmoil.

The confusions while the cost of the project riginally estimated at \$200 million, reaches toward \$400 million with an additional \$100 million in prospect.



but have the right to levy up to one mill tax in the district.

No two members may come from the same county, which means that were two especially able men available from one of the counties, the services of one would not be available.

SINCE the district was established in 1949 a controlling majority of the heard has come from approximately the middle section of the district; this hecause the work was Lake Okeechober-related in public and official thinking when the law was adopted.

The way it has worked out is that five unpaid men, who meet once a month, exercise enormous power on a project about which they cannot have the knowledge which comes with day by day application.

Of the present members, one manages his own investments at Kissimmee, one is a real estate operator at Melbourne, one is a Chevrolet dealer at Fort Pierce and the fifth, Robert L. Searle, former mayor of Coral Gables, is an insurance man.

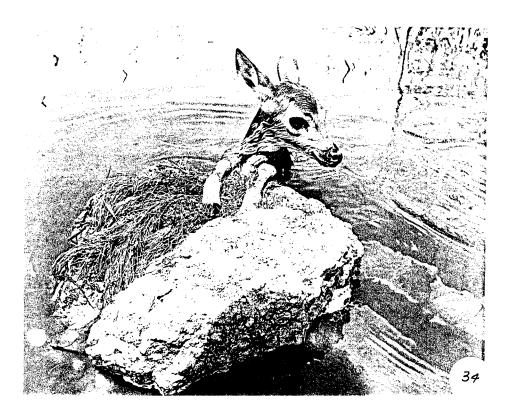
OUT OF THIS situation, and understandably, has grown a policy hitched primarily to soil reclamation and farm land controls in the general lake area.

Other factors which were endorsed by Congress when Uncle Samset up the project on approximately an 80 (federal) to 20 (state) per cent participating basis, were secondary such as the fresh water resources of the East. Coast cities, the Everglades National Park, the National Wildlife Refuge in the upper sector and the state's fish and wild life area approximately in the middle.

The purposes of the district would be better served if the public interests involved made its policies known through membership on the heard. Out of mutual understanding could come better administration.

could come better administration.

It might, lee, and some confusion in the public mind. The recent control except the control of the mind the recent control except the control of the pictures suggested to many that the Everplaces Park drought situation had been solved. The pictures were made far north of the park, in some of the water that the park is being deprived of by the complication of man-made controls in the way of its southward flow.



PETITION

We, the undersigned Petitioners, are gravely concerned over the past and present, as well as future actions proposed, of the South Central Florida Flood Control District as it relates to conservation and protection of natural wildlife. Each of us, as taxpayers, both of the State of Florida and of the United States, is concerned with the expenditures of both Federal tax monies as well as State monies in financing the various operations of the South Central Florida Flood Control District.

In recent months, much notoriety has been given to the fact that wildlife is being destroyed in the western areas of Dade, Broward, and Palm Beach Counties, as well as parts of Hendry and Collier Counties, because of the operation of the FCD in maintaining water levels in conservation areas #2 and #3 to such an extreme height that it causes destruction of the deer, hogs and many other species of natural wildlife. One of the largest deer herds in South Florida has diminished to practically nothing in the last two years because of the intense flooding of conservation area #2.

Inasmuch as it is the tax dollar that makes the operations of the FCD possible in the building of the canals, levees, pumping stations and other projects, the interest of the farmers and developers are being protected by this agency; however, the conservation of wildlife and other natural resources should also be given adequate consideration.

A better understanding and a closer cooperation is imperative among the Corps of Engineers, the FCD and all other State and Federal agencies and officials entrusted with the preservation of the Florida Everglades and the wildlife therein.

It is hopeful that the proposed canal, being considered by the Corps of Engineers and the FCD, to furnish water to the Everglades National Park, be routed around the eastern perimeter of conservation area #3, so as not to destroy or disturb the natural habitat of the wildlife therein.

We are concerned and desire to have brought to the attention of all the citizens of this State, the financial matters and budgets of the FCD, which is responsible to the Corps of Engineers. Originally, this project was estimated in the vicinity of \$200 million, and now is close to \$400 million with proposals for another \$100 million being considered. Since most of these monies (80%) is contributed by the Federal Government, we believe that Congress should take a close look and perhaps conduct a full scale investigation into the financial operations of these agencies.

We as taxpayers and Conservationists strongly urge a full open discussion and study be made concerning the present and future operation of these agencies, both financial as well as operational. This we believe to be in the best interest of all citizens of Florida and the many others who wish to utilize the Everglades and the National Park facilities. There is but one Florida Everglades.

We therefore ask the Governor of the State of Florida and our Congressional Representatives to set forth such measures as are necessary to preserve it in its natural state and to safeguard the natural wildlife therein by regulatory water control levels compatible with their natural habitat.

VIEWPOINTS

ebunk myths on Everglades restoration

Retired Col. Terry L. Rice, a research scientist at Florida International University, previously commanded the U.S. Army Corps of Engineers "dackson-ville District. He also represents the Miccosukee Tribe on the Working Group for South Florida Ecosystem Restoration

FTEN, as Jean Jacques Rousseau cautioned in his Discourse, "We are deceived by the outward appearance of right." It is this "outward appearance of right" that has fixated the South Florida Water Management District's board

on the removal of residents of the 81/2 Square Mile Area in the name of restoration, even though restoration can be achieved at ess cost and in less time while avoiding the destruction of more than 350 homes. The delay will permit the continued destruction of the Everglades and caused by the board's decision

the Corps levee appears "right," may doom its restoration forever. To the board, the removal of the people who live "west" of

even though it accepts without question tens of thousands on the "east" side, whose negative Further, this appearance of right has been transmog-rified into "an absolute right," in the minds of even mpact on the Everglades has been much greater. the keenest intellects, by the contrivance and pro-

■ The 8½ Square Mile Area must be acquired for Everglades restoration. Not true. As directed by build a levee to protect the area from increased restoration flows in Shark River Slough and submitted Congress in 1989, the Corps developed a plan to it to Congress in 1992.

■ The Corps plan does not work. Not true. The Corps stands behind its plan and two SFWMD consultants recently confirmed that it allows natural flows in the slough.

funded 100 percent by the Interior Department. If the Corps plan doesn't work, the Corps is obligated plan. Not true, Congress directed that this project be SFWMD taxpayers must pay to fix the Corps to:fix it at federal expense.

effect on restoration. This fact is reinforced by plans to keep the main road through the area for Ever-■ The 8½ Square Mile Area is blocking the flow of water in the slough. Not true, The area is on relatively high ground on the slough's periphery. Removing the residents would have virtually no glades National Park personnel to reach their homes deeper in the slough.

TA(A

restoration of Shark Slough. The board rejected the Corps plan, which could be completed by 2003 for

ple. The board opted for a buyout that will cost at

Why? It was deceived by the "outward appearance

about \$40 million and not adversely affect any peoeast \$112 million and remove about 1,000 people.

> The state supports buyout. Not true. Govs. Bob Graham, Bob Martinez, and Lawton Chiles all considered total buyout and rejected it.

County increase services at great expense. Not true. The plan provides flood mitigation, not flood pro-■ The Corps plan will require that Miami-Dade

Removing people is a nonengineering solution. Not true. Whether the increased seepage due to restoration is intercepted at the current boundary or

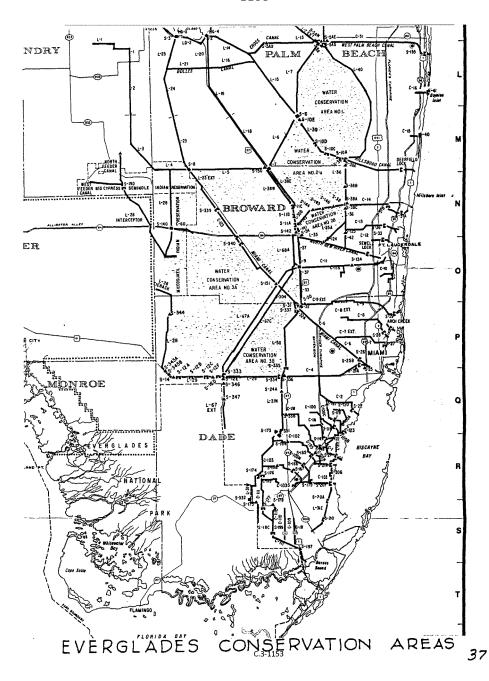
further to the east, significant engineering will be required to handle it.

definitive. Not true. The analysis was an example of The analysis that led to buyout was public and the use of a quantitative decisionmaking methodology to yield preordained results that affect poweress people without the requisite public input

idents want a version of the Corps plan and their Most residents want to sell. Not true, Most resroads raised.

agreements with Interior and the county. It opens a Pandora's box of issues. The Corps project could be complete by 2003, while the board vote provides no vote was to buy from "willing" sellers, not to condemn as is necessary, and hinges on cost-sharing Both the Corps plan and buyout will permit the It could very well be a dead-end excursion! The Buyout will expedite restoration. Preposterous. certainty that the area ever will be vacated.

lives waste money, create delay, destroy people's Restoration of the Everglades will cost billions of dollars and take decades. Fixation on false objecives, and ultimately will undermine public support. Removing people from the area is a fixation that could doom our efforts to restore the only Everof right" and embellished by myth. glades in the world.



State of Florida.

Everglades Status Report Date: Tune 30,1995

III. PROTECT THE WATER CONSERVATION AREAS

BACKGROUND: The Water Conservation Areas (WCAs) are integral components of the Everglades and the water supply for southeast Florida. The 862,800-acre WCAs comprise about half of the Everglades. The WCAs help recharge wellfields, prevent flooding of the urban southeast coast, provide protection for the natural ecosystem and provide about one-fourth of the water for Everglades National Park.

The WCAs are rich in fish and wildlife resources and provide excellent recreational opportunities. The Florida panther, Everglades kite, wood stork, American alligator, and white-tailed deer are only a few of the notable species that inhabit the WCAs.

The plan for protecting the WCAs is to acquire the remaining lands not in public ownership (approximately 62,653 acres), restore more natural hydrology, remove exotic vegetation and protect water quality by implementing the Florida Everglades Forever Act of 1994.

An October 1988, federal lawsuit against the state and the SFWMD alleging that federally owned or leased lands in the Everglades were being damaged by agricultural runoff water containing excess phosphorus was largely settled by agreement among the parties on July 26, 1991. This agreement was approved and entered as a consent decree by the federal court judge on February 24, 1992. However, the litigation shifted to the state administrative arena when the Everglades SWIM Plan and the permits for SFWMD water control structure discharges were challenged by agriculture. Although the litigation did not resolve all the issues, it did lead to an intensive year-long mediation effort. This effort led to development of a "Technical Mediation Plan" dated October 1993. The most important elements of this plan were incorporated into the Florida Everglades Forever Act of 1994. The plan improved upon a March 1992, Surface Water Improvement and Management (SWIM) Plan. Under the SWIM Plan, "Stormwater Treatment Areas" would be constructed in the EAA on some 35,000 acres and a detailed research. monitoring and regulatory program would be implemented to reduce total phosphorous loads by 25 percent. The "Technical Mediation Plan" also included treatment for water discharged to tide (Canal 139 and Canal 51 basins), treatment and diversion of water to the south that is periodically discharged to Lake Okeechobee from the EAA, and improved water quantity benefits. A modified Technical Plan was published in February 1994, which included redesign for Stormwater Treatment Area 5 and excluded publicly owned lands in the Rotenberger Tract for stormwater treatment.

On May 3, 1994, Governor Chiles signed into law the "Florida Everglades Forever Act," passed by the Legislature on April 15. The Act provides for a broad, long-term restoration effort and is expected to bring an end to numerous legal challenges. It will enable implementation of the cleanup program originally embodied in the Everglades SWIM Plan and the Technical Mediation Plan as modified. The comprehensive Everglades restoration program authorized in the Act includes requirements for establishing a numerical water quality standard for phosphorus and an extensive research and monitoring program. It establishes an "agnicultural privilege tax" and

other financial provisions to pay for construction, operation and maintenance of the program. It also provides for the restoration of the quantity, timing and geographical distribution of freshwater flows to the Everglades and Florida Bay.

- 1. On June 4, Colonel Terry L. Rice, Chairman, Federal Task Force Working Group and Chief, Jacksonville District Corps of Engineers, forwarded to Assistant Secretary of the Interior George Frampton a report with recommendations for the expenditure of 1996 Farm bill funds for Everglades restoration projects. The priority list closely correlates to the priorities recommended by the Governor's Commission for a Sustainable South Florida on May 30, 1996.
- 2. The SFWMD acquired 9,742 acres in the East Coast Buffer project area; approximately 58,312 acres remain to be acquired.
- 3. Acquisition negotiations are underway on the Talisman Sugar Corporation properties. No agreement on a purchase price has been reached.
- 4. During the period, conservation intervenors in the Everglades Lawsuit filed in the U.S. Southern District Court copies of the 1996 Farm Bill and its legislative history as evidence supporting their argument that an extension of time to meet water quality standards is not needed and therefore modifications to the lawsuit settlement agreement and consent decree are not necessary. In addition, the Miccosukee Tribe of Indians filed various motions regarding the proposed modifications. The SFWMD and agricultural interests have filed responses to the motions. The court has ruled on several of the Miccosukee Tribe's motions and is expected to soon rule on the earlier motions heard in November and December 1995 (the Miccosukee Tribe's motion to enforce the consent decree, agriculture's motion to dismiss and the settling parties motion for modifications to the settlement agreement).
- 5. The Florida Department of Environmental Protection (DEP) has been asked by the federal South Florida Ecosystems Restoration Working Group to chair an interagency Water Quality Team. The team is reviewing water quality/stormwater treatment issues in western Broward County (C-11 Basin), western Dade County and the C-111 basin. In Broward County, untreated stormwater is routinely discharged through the S-9 structure directly into WCA-3A. The issue involves the three gaps in the L-67 A and C canal, which were opened experimentally by the Corps and then closed last year because of high rainfall. The untreated stormwater enters the L-67 canals and flows through the gaps into WCA-3B, an area of excellent water quality.
- 6. On February 14, Colonel Terry Rice informed the SFWMD that the Corps had major concerns regarding the permit applications for the construction of the Stormwater Treatment Areas in the EAA. These are mercury, timing of hydropattern restoration in WCAs 2A, 3A and Holeyland/Rotenberger, possible effects on water quality (if the final

phosphorous discharge standard is less than 50 parts per billion) and whether the STAs are the best solution for treating water to the final standard. A workshop on these issues is scheduled for July 19 in West Palm Beach.

7. On May 30, the DEP published a Notice of Intent to issue a permit to the SFWMD for the operation and maintenance of existing structures not included in the Everglades Construction Program that discharge into, within or from the Everglades Protection Area. The DEP has received a petition for an administrative hearing pursuant to Chapter 120, Florida Statutes, from the Miccosukee Tribe of Indians and Friends of the Everglades. Concerns about the proposed permit have also been recieved from Everglades National Park and Loxahatchee National Wildlife Refuge staff. Changes suggested by these parties are likely to result in minor modifications to the draft permit.

October 9, 2013

The White House 1600 Pennsylvania Ave. N.W. Washington, D.C. 20502

Subject: Breach of Homeland Security

Violation of the Federal Code of Regulations Environmental Pollution of Federal Waterways Endangerment of Federally Protected Species

Attn: Denis McDonough, White House Chief of Staff

Despite my numerous attempts to get cooperation from the Department of Environmental Resources Management (**DERM**), the South Florida Water Management District (**SFWMD**), Florida Wildlife Commission (**FWC**) and the United Sates Coast Guard (**USCG**) ninth district, the inlet waterway bordering to the south of my residence and the City of Sunny Isles Beach (**SIB**) community is plagued with multiple contaminants, and illegal centrally moored, motorized, unattended and unlit water-craft day and night, all within a federally protected Manatee Habitat.

The enclosed photographs document permanently moored and motorized water-craft that are a possible breach of homeland security. These vessels are routinely repaired illegally and add to the existing bay contamination which I reported to the SIB marine patrol, FWC and USCG (enclosed e-mail dated July13, 2013). The enclosed USCG advanced approval for a proposed bridge in this contaminated area is being violated, because USCG approval was limited to motor less water-craft. If extended beyond its expiration date of January 20, 2014, it will surely create greater pollution and further navigation obstructions in blatant violation of the (enclosed) Code of Federal Regulations, Title 33-Navigation and Navigable Waters, Volume 2. Title Section 162.65 Chapter I - Coast Guard, Department of Homeland Security (continued). Sub chapter P- Ports and Waterway safety Part 162 - Inland Waterways Navigation Regulations, (3)(b), (2)(a)(ii)(iii) (iv)(v)(vi)(vii)(viii) for Town Center Park Canal in the vicinity of mile 1077.6 of the Atlantic Inter-coastal Waterway, located at North Bay Road, Sunny Isles Beach, Miami-Dade County, Florida from the coordinates of: 25 degrees 56.1729 minutes North latitude and 80 degrees 7.58000 minutes West longitude to 25 degrees 56.1530 minutes North latitude and 80 degrees 7.41920 minutes West longitude all the way eastward 25 degrees 56.18000 minutes North latitude and 80 degrees 7.41920 minutes West longitude to 25 degrees 56.15950 minutes North latitude and 80 degrees 7.41920 minutes West longitude to 25 degrees 56.15950 minutes North latitude and 80 degrees 7.41900 minutes West longitude 2

HISTORICAL AND IGNORED POLLUTION OF THE BAY REQUIRING REMEDIATION:

In a conspiratorial fashion, since 2002 the City of SIB has recklessly squandered millions of dollars to prepare for a bridge that the SIB Chief of Police coined "a death-trap," with his concerns for the resulting panic, injury and death created by the dangerous convergence simultaneously of all emergency, automobile and pedestrian traffic onto two lanes of 174th Street from the six traffic lanes of A1A. It would also choke off, clog and back-up traffic on 172th Street, which already offers relief as it provides a path for direct access to the expansion bridge on 163th Street (also known in Sunny Isles Beach as State Road 826). SIB has never acknowledged or allocated funding for the remediation of the polluted Town Central Park Canal, as I documented in great detail in my 129-page complaint and report to SIB Mayor Norman Edelcup dated January2, 2013, which was e-mailed earlier to SFWMD, and which I now enclose within a CD for your review to confirm the following facts:

On December 20, 2012 SIB Mayor Norman Edelcup and the SIB Commission re-affirmed plans to build the low-level "North Bay Road Bridge "over Town Center Park Canal ignoring federal rules, that would impede open navigation (for which this is the only access by water) to barges, equipment and materials necessary for the structural repair of adjacent sea walls, which former SIB City Manager John Szerlag confirmed in his letter to SIB Mayor Norman Edelcup and the SIB Commission dated July 20, 2006 that states;

. C.3-1157 "As a point of information, the city will need to work with Winston Towers for reason of shoring up the sea wall of the bridge because once constructed, a barge will not be able to navigate under the bridge."

It is part of my 129 page letter to SIB Mayor Norman Edelcup of January 2, 2013, previously submitted to the SFWMD staff. Please note the enclosed CD includes a June 2008 Biological Resources Assessment of the North Bay Road Bridge, prepared for SIB which documents the negative environmental impact on aquatic endangered species and need for the immediate remediation of this waterway. The report states; "It should d be noted that the northern side of the canal contained large quantities of debris, such as lawn chairs, shopping carts, wooden pilings, and tires. Additionally, the south side, containing the mangrove area was equally riddled with garbage and litter."

To expedite approval of the SIB bridge permit on September 24, 2013, SFWMD ignored over thirty specific environmental concerns in their earlier correspondences to SIB's Engineering contractor EAS and SIB Commissioner Jeanette Gatto dated August 1, 2012, April 2, 2013, May 10, 2013 and June 27, 2013. This permit approval for a low-level bridge will prevent pollution remediation in a protected manatee habitat and open navigation for seawall reconstruction. I am enclosing copies of the SFWMD correspondence.

SFWMD issued a permit despite SIB's failure to resolve their joint ownership, eminent domain issues of disputed submerged and coastal property rights, storm water drainage easement and permission to repair seawalls by their owners. On their own these legal issues prevent bridge construction, but in effect SFWMD exempted SIB from its legal obligation to remove contaminants as the partial property owner of submerged land, which is serving as an underwater toilet for storm-water discharge, and waste produced by unlicensed and non-permitted contractors who dispose unusable construction materials, debris and general pollutants into the Canal, destroying the aquatic endangered species and compromising community health and safety. Ironically, SIB's own charter requires no less than 18 foot high fencing surrounding new building construction along the Ocean coastline to insure the environmental integrity by containing hazardous construction waste and debris, but intentionally disregards the exposed perimeter of the North Bay Bridge to unlimited contaminants and destruction of endangered aquatic species. I am enclosing a photo of a WT300 yard garbage dumpster and open containers adjacent to the bay, whose location and low fencing height allowed daily airborne garbage, debris and contractor pollutants to end up in the bay in violation of SIB and Miami Dade County codes.

As early as March 30, 2004 SIB City Manager Christopher Russo's sent WT300 the enclosed letter pertaining to storm-water in which he stated, "Further, under Florida statutes this method of water discharge is illegal and it has been since the building was built. Storm-water cannot drain over the surface of an adjoining property that is not owned by the 300 building and into the canal." The letter also states, "Again, please be advised that it is illegal to discharge storm-water over someone else's property and into the canal. Violations have been issued to both property owners and corrective action must be taken."

City Manager Russo sent copies of this letter to Mayor Norman Edelcup and all SIB Commission members and to SIB Building Official Clayton L. Parker. In spite of their oath to "serve and protect," for over ten years not one SIB Commissioner alerted the community or notified **DERM** of this serious ongoing pollution of Town Center Park Canal by storm-water discharge from the WT300 garage which also degrades Biscayne Bay.

In total disregard for the mandatory DERM approval protocols, SIB Building Code Compliance Officer Clay Parker illegally issued the attached SIB WT 300 master permits #B2007-1020 dated December 10, 2007 for "Gutters and Downspouts (Drainpipes)" and #B2008-900 for "Gutters Revision" dated April 18, 2008, that authorized expansion of illegal storm water drainage that continues to expand the volume of pollution to date.

At our meeting with City of SIB officials on August 1, 2012 and two meetings at DERM's Coastal Resources Section on November 3, 2009 and February 8, 2013, Dr. Duane Finello P.E. and I documented illegal expansion of the WT300 storm water drainage, to which DERM stated that WT300 couldn't be granted a "grandfathered" exemption for that expansion and sent WT 300 a Warning Notice dated May 23, 2013 which they rescinded illegally on October 1, 2013, based on a (enclosed) report dated 10/19/13 by Albert P. Dettbarn of Biscayne Engineering Corporation's assessment "The report presented a good justification for not providing water quality treatment based on the assumption that the percolation rate is marginal."

In response to his report I filed a second (enclosed) complaint against Mr. Dettbarn with the Florida Department of Professional Engineers (FDPE).

At our two meetings we also notified DERM that in **December 2009 WT300** Property Manager and Board of Director **Michael Lewis Schnitzer paid Mr. Rene A. Cordero \$14,600 to illegally pump concrete (without permits or proper containment procedures) onto and under the seawall that appears to have created an <u>illegal</u> "footing" atop the submerged land at the base of the sea wall which continues to pollute the Canal.**

DERM agreed to have underwater divers investigate the concrete footing, but blamed budgetary restraints as justification for deferring investigation and enforcement. DERM also expressed their <u>assumption and opinion</u> all storm-water runoff and hazardous waste chemicals going into the Canal were being dispersed and biologically neutralized or decomposed within the Canal, and therefore <u>no water or submerged land analysis was required.</u>

The enclosed Miami Herald article dated 9/25/13 "Miami Workers Scramble to Test Toxic Soil in 112 Parks" and Miami Herald article dated 9/29/13, "Contaminants Found at Biscayne Landing Site" confirms that DERM is even ignoring the alarming results of their own biological assessments.

DERM also demonstrated a total lack of understanding or disregard for the historical navigation rules of <u>CFR</u> 162.65, in the Code of Federal Regulations, by assuring us permanently moored, motorized, unlit and unattended water-craft had the legal authority to remain in the canal indefinitely.

It is most likely the federal government excavated the Canal in the early 1950's to provide one of several safe sanctuaries for manatees adjacent to the northern Miami-Dade County portion of the Inter coastal Waterway in Biscayne Bay. SIB refuses to adopt local ordinances and post markings necessary to establish and identify the Canal area east of the proposed bridge construction site as a manatee protection zone and essential manatee habitat, mandated by the Miami-Dade County Manatee Protection Plan (MDCMPP), in fear of delaying or adversely complicating the approval process for their boondoggle North Bay Bridge,

Florida state and county resource management agencies are being allowed to deliberately discriminate in favor of municipalities who routinely enjoy unjustified, illegal exemptions of environmental codes to the detriment of the communities they serve, while private property owners and businesses are held to a higher standard.

The Obama administration is inadvertently allowing federal funding in the Central Everglades Planning Project to be manipulated and used for mitigation by SFWMD that will result in destruction of the beautiful and treasured coastline of Miami-Dade County's Biscayne Bay and its endangered and almost extinct species, as a price for and in favor of restoring with minor impact on the Florida Everglades.

I enclose a copy of my petition to the SFWMD to rescind the SIB bridge permit Dated October 8, 2013, which was denied by the SFWMD ORDER DISMISSING PETITION WITH LEAVE TO AMEND ON October 24, 2013.

Mr. Mc Donough I urge you to intervene on behalf of all us that respect the integrity of our legal system and are trying to protect our abused environment, its endangered species who are threatened by local and state abuse of existing statutes under the mismanagement of agencies supported directly or indirectly with Federal Government Funding.

M

Herman Herbert Granek 230 174th St. # 603

Respectfully

Sunny Isles Beach FL 33160

cc: Attorney General of the United States Eric Holder

Rand Beers, Director Homeland Security

Admiral Robert J. Papp Jr., Commandant United States Coast Guard

Gina McCarthy Administrator the United States Environmental Protection Agency

Sally Jewell, Secretary of the Department of the Interior

Lt. General Thomas Bostick Commander General U.S. Army Corps of Engineers

General Kent D. Savre, North Atlantic Division U.S. Army Corps of Engineers

Dr. Gretchen Eblinger U.S. Army Corps of Engineers

The Honorable Rick Scott, Governor

Miami Dade County Mayor Carlos A. Jimenez

Lee Hefty Dirctor of Department of Environmental Resources Management

Katherine Rundle, Dade County State Attorney

Miami Herald Executive Editor Myriam Marquez

Title 33 CFR 162.651

[Code of Federal Regulations (annual edition) - July 1, 2005 Edition]

[Title 33 - NAVIGATION AND NAVIGABLE WATERS]

[Chapter I - COAST GUARD, DEPARTMENT OF HOMELAND SECURITY (CONTINUED)]

[Sub chapter P - PORTS AND WATERWAYS SAFETY]

Part 162 - INLAND WATERWAYS NAVIGATION REGULATIONS

[Sec. 162.65 - All waterways tributary to the Atlantic Ocean south of ...]

[From the U.S. Government Printing Office]

33 NAVIGATION AND NAVIGABLE WATERS 2 2005-07-01 2005-07-01 false 162.65 Sec. 162.65 NAVIGATION AND NAVIGABLE WATERS COAST GUARD, DEPARTMENT OF HOMELAND SECURITY (CONTINUED) PORTS AND WATERWAYS SAFETY INLAND WATERWAYS NAVIGATION REGULATIONS

Sec. 162.65 All waterways tributary to the Atlantic Ocean south of Chesapeake Bay and all waterways tributary to the Gulf of Mexico east and south of St. Marks, Fla.

- (a) Description. This section applies to the following:
- (1) Waterways. All navigable waters of the United States, natural or artificial, including bays, lakes, sounds, rivers, creeks, intracoastal waterways, as well as canals and channels of all types, which are tributary to or connected by other waterways with the Atlantic Ocean south of Chesapeake Bay or with the Gulf of Mexico east and south of St. Marks, Florida.
- (2) United States property. All river and harbor lands owned by the United States in or along the waterways described in paragraph (a)(1) of this paragraph, including lock sites and all structures thereon, other sites for Government structures and for the accommodation and use of employees of the United States, and rights of way and spoil disposal areas to the extent of Federal interest therein.
- (3) Vessels and rafts. The term ``vessel" as used in this section includes all floating things moved over these waterways other than rafts.
- (b) Waterways--
- (1) Fairway. A clear channel shall at all times be left open to permit free and unobstructed navigation by all types of vessels and rafts that normally use the various waterways or sections thereof. The District Commander may specify the width of the fairway required in the various waterways under his charge.
- (2) Stoppage in waterway, anchorage or mooring.
- (i) No vessels or rafts shall anchor or moor in any of the land cuts or other narrow parts of the waterway, except in case of an emergency. Whenever it becomes necessary for a vessel or raft to stop in any such portions of the waterway it shall be securely fastened to one bank and as close to the bank as possible. This shall be done only at such a place and under such conditions as will not obstruct or prevent the passage of other vessels or craft. Stoppages shall be only for such periods as may be necessary. [[Page 593]]
- (ii) No vessel or raft will be allowed to use any portion of the fairway as a mooring place except temporarily as authorized above without the written permission from the District Commander.
- (iii) When tied up, all vessels must be moored by bow and stern lines. Rafts and tows shall be secured at sufficiently close intervals to insure their not being drawn away from the bank by winds, currents or the suction of passing vessels. Tow lines shall be shortened so that the different parts of the tow shall be as close together as possible. In narrow sections, no vessel or raft shall be tied abreast of another.
- (iv) Lights shall be displayed in accordance with provisions of the Navigation Rules, International-Inland, Commandant Instruction M16672.2 (series).
- (v) No vessel, even if fastened to the bank as prescribed in paragraph (b)(2)(i) of this section, shall be left without a sufficient crew to care for it properly.
- (vi) Vessels will not be permitted to load or unload in any of the land cuts except as a regular established landing or wharf without written permission secured in advance from the District Commander.
- (vii) No vessel, regardless of size, shall anchor in a dredged channel or narrow portion of a waterway for the purpose of fishing, if navigation is obstructed, thereby.
- (viii) Except in cases of emergency the dropping of anchors, weights, or other ground tackle, within

areas occupied by submarine cable or pipe crossings, is prohibited. Such crossings will ordinarily be marked by signboards on each bank of the shore or indicated on coast charts.

- (3) Speed.
- (i) Vessels shall proceed at a speed which will not endanger other vessels or structures and will not interfere with any work in progress incident to maintaining, improving, surveying or marking the channel. (ii) Official signs indicating limiting speeds through critical portions of the waterways shall be
- strictly obeyed.
- (iii) Vessels approaching and passing through a bridge shall so govern their speed as to insure passage through the bridge without damage to the bridge or its fenders.
- (4) Assembly and handling of tows.
- (i) All vessels drawing tows and equipped with rudders shall use two tow lines or a bridle and shorten them to the greatest possible extent so as to have full control at all times. The various parts of a tow shall be securely assembled with the individual units connected by lines as short as practicable. If necessary, as in the case of lengthy or cumbersome tows or tows in restricted channels, the District Commander may require that tows be broken up and may require the installation of a rudder, drag or other approved steering device on the tow in order to avoid obstructing navigation or damaging the property of others, including aids to navigation maintained by the United States or under its authorization, by collision or otherwise.
- (ii) No tow shall be drawn by a vessel that has insufficient power or crew to permit ready maneuverability and safe handling.
- (iii) Tows desiring to pass a bridge shall approach the opening along the axis of the channel so as to pass through without danger of striking the bridge or its fenders. No vessel or tow shall navigate through a drawbridge until the movable span is fully opened.
- (iv) In the event that it is evident to the master of a towing vessel that a tow cannot be safely handled through a bridge, it will be brought to anchor and the towed vessels will be taken through the bridge in small units, or singly if necessary, or the tow will wait until navigation conditions have improved to such an extent that the tow can pass through the bridge without damage.
- (5) Projections from vessels. No vessel carrying a deck load which overhangs or projects over the side of said vessel, or whose rigging projects over the side of the vessel so as to endanger passing vessels, wharves or other property, will enter or pass through any of the narrow parts of the waterway.
- (6) Meeting and passing. Vessels, on meeting or overtaking, shall give the proper signals and pass in accordance with the Navigation Rules, International-Inland, Commandant Instruction M16672.2 (series). Rafts shall give to vessels the side demanded by proper signal. All vessels approaching dredges [[Page 594]]
- or other plant engaged on improvements to a waterway, shall give the signal for passing and slow down sufficiently to stop if so ordered or if no answering signal is received. On receiving the answering signal, they shall then proceed to pass at a speed sufficiently slow to insure safe navigation.

 Note: The Corps of Engineers also has regulations dealing with this section in 33 CFR Part 207. [CGD 75-082, 42 FR 51759, Sept. 29, 1977, as amended by CGD 93-072, 59 FR 39963, Aug. 5, 1994; USCG-2000-7223, 65 FR 40058, June 29, 2000]

November 1, 2013

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, FL 32232-0019

Dear Ms. Ehrlinger:

These are the formal public comments of Larry E. Fink, M.S., Owner and Principal, Waterwise Consulting TM, LLC, on the Project Implementation Report (PIR) dated August 2013 for the Tentatively Selected Plan (TSP) for the Central Everglades Project Plan (CEPP) public noticed by the U.S. Army Corps of Engineers (USACE)-Jacksonville with its Everglades restoration partner, the South Florida Water Management District (SFWMD) on September 9, 2013. (http://www.evergladesplan.org/pm/projects/project_docs/pdp_51_cepp/dpir/082813_cepp_dpir_main_report.pdf). In the context of the National Environmental Policy Act, the regulations, guidelines, policies, and procedures implementing NEPA, and the judicial precedents regarding the NEPA process, the TSP is also known as the Preferred Action (PA) and the preparation, public notice, taking of public and agency comment, revision, public notice of the revised final PIR must also meet all of the requirements of the NEPA process in the preparation, public notice, taking of public and agency comment, and the public notice of a revised final project-specific Environmental Impact Statement (EIS), Findings of No Significant Impacts (FONSI), and the Record of Decision (ROD) http://www.epa.gov/compliance/resources/policies/nepa/#policies-procedures,

including environmental justice considerations for minorities and the nations of the first peoples. http://www.epa.gov/compliance/nepa/nepaej/index.html. These comments supersede and replace those submitted on October 15, 2013.

Executive Summary

The predominantly drained soil conditions required for sugar cane farming in the Everglades Agricultural Area (EAA) result in the oxidation of roughly half an inch of peat soil each year. Nutrients and non-nutrient toxic substances and their precursors leach out of the oxidizing peat soil into stormwater runoff. Unlike nutrients, these non-nutrient toxic substances and precursors are not treated by the constructed wetlands known as Stormwater Treatment Areas (STAs) sufficiently to eliminate that toxicity, and there are no plans to add superior technologies for that purpose. These inadequately treated toxic substances and precursors are eventually discharged to the remnant impounded Everglades. This results in the presence of toxic substances in toxic amounts, which is precluded by the Federal Clean Water Act and equivalent Florida water law.

In its present configuration, the irreversible consumptive use of peat soil for sugar cane production in the EAA is incompatible with the restoration and protection of South Florida ecosystems in general and the Everglades in particular. Conversely, agricultural practices that require primarily flooded conditions, e.g., rice and aquaculture, are not incompatible with Everglades restoration. Such practices are also not incompatible with the emergency stacking of

emergency releases of water from Lake Okeechobee that would otherwise be routed to tide, where the polluted fresh water is destroying the east and west coast estuaries. Land purchased via eminent domain for purposes of stacking Lake Okeechobee emergency releases could also be leased for flood-compatible uses with deed restrictions that preclude the discharge of nutrients or toxic substances or their precursors at rates that exceed the capacities of the STAs to treat them to safe levels.

Unfortunately, the CEPP process did not identify this alternative as superior to the set of projects that emerged as the TSP/PA, because the CEPP process assumed as convenient expedients that the EAA would continue to be used primarily for sugar cane farming and that STAs would treat nutrients and non-nutrients, including and especially the light-limiting dissolved organic carbon (DOC) and the toxic substance precursor, sulfate, to safe levels, when that is not the case. These and related concerns were brought to attention of the South Florida Ecosystems Task Force in several workshops early in the CEPP process (Attachment 1 and 2), so this is no last-minute surprise. Instead, these legitimate water quality constraints were ignored in the decision-making process, despite the fact that the enabling legislation for CERP, of which CEPP is derivative, the Water Resources Development Act of 1996 and 2000, preclude the violation of any Federal law, regulation, or standard in reconfiguring the Central and Southern Florida (C&SF) Project system for purposes of South Florida ecosystem restoration. Most unfortunately, ignoring water quality constraints on the design, operation, and maintenance of CEPP projects has serious consequences that cannot be ignored by the taxpayers who must pay for this injustice and the people who are exposed to toxic substances toxic amounts in the fish they eat, especially the subsistence consumers and native peoples protected by the Environmental Justice provisions of NEPA created by Presidential Executive Order. This is also true of the fish-eating wildlife and their predators, some of which are listed as threatened or endangered species under the Federal Endangered Species Act and/or its Florida equivalent. Such species include the bald eagle, wood stork, Everglades mink, and Florida panther.

In summary, the TSP/PA and the project-specific PIR/EIS for the TSP/PA are critically deficient, because the process used to develop, screen, and select Everglades restoration project alternatives is administratively, legally, and technically flawed.

- (1) It is administratively fatally flawed, because the project-specific PIR/EIS should have been preceded by a revised Programmatic EIS (PEIS) for CERP that considers the broader implications of the changes in the approach to and environmental impacts of CERP as a result of CEPP, including changes to the assumptions, approximations, interpolations, and extrapolations upon which the environmental impact assessment in previous PEISs and project-specific PIRs/EISs were based.
- (2) It is legally fatally flawed, because it is a violation of the following laws, regulations, standards, or practices:
 - (a) Clean Water Act (CWA), because it makes a Water Quality Standards compliance distinction between impacted and unimpacted areas in the same water body, thereby implicitly granting a permanent variance from WQS in already impacted areas, neither of which is provided for in the CWA.
 - (b) Endangered Species Act, because the excess methylmercury production, bioaccumulation, and risk caused by routing inadequately treated high-sulfate EAA

- runoff to the Everglades represents a toxicological barrier to access and use by fish-eating wildlife and their predators, including the endangered wood stork, bald eagle, Everglades mink, and Florida panther, and, thus, constitutes an unlawful taking.
- (c) creates an attractive nuisance, because it encourages growth and development in zones where the risk of loss of life, limb, and property is high a result of the rapidly failing Herbert Hoover Dike (HHD).
- (3) It is technically fatally flawed, because:
 - (a) It omits critical selection criteria/performance measures, i.e., non-nutrient water quality constraints, light limitation and time-to-recovery.
 - (b) It omits viable alternatives to the TSP, i.e., those that accelerate the time-to-recovery of nutrient-impacted areas by removing or stabilizing contaminated sediments or mechanical harvesting of rooted macrophytes growing in the contaminated sediments in Lake Okeechobee or the impacted Everglades.
 - (c) It omits known or reasonably anticipated significant adverse environmental impacts, including causing or contributing to:
 - (i) the presence of toxic substances in toxic amounts, e.g., hydrogen sulfide and methylmercury, caused by routing high-sulfate EAA runoff to the Everglades; and/or
 - (ii) the irretrievable commitment of resources, e.g., EAA peat soil oxidation, as a result of CEPP facilitating the continuation of the consumptive uses of water quantity and quality to grow EAA crops requiring predominantly drained conditions.
 - (d) It evaluates stage-duration-frequency contours using a water quantity model that is deficient in representation of resistance to flow and quantification of evapotranspiration, based on presentations made and papers published by the U.S. Geological Survey and the comments of various peer review panels, each of which are incorporated here by reference.
 - (e) It evaluates compliance with the phosphorus WQS using a water quality model that is deficient in representation, parameterization, calibration, and validation and that cannot model non-nutrient water quality compliance or impacts for non-conservative toxic substances, e.g., mercury.
 - (f) It did not include a rigorous quantitative uncertainty analysis regarding the probabilities of achieving and not achieving the water quantity, quality, routing, and timing criteria and the probabilities of causing or not causing various adverse impacts, including but not limited to excess methylmercury production, bioaccumulation, and risks to exposed humans and fish-eating threatened or endangered wildlife. The results of the qualitative and semi-quantitative approximations to a rigorous quantitative uncertainty analysis used by the modelers that were appended to the draft PIR/EIS are not sufficient in this regard.
 - (g) It did not include an adequate margin of safety in the engineering design and adequate operational flexibility sufficient to compensate for the propagated uncertainties in the quantity, quality, timing, and routing of water under routine, extreme weather, and various failure modes, including a catastrophic failure of the Herbert Hoover Dike.

As a consequence of these fatal administrative, legal, and technical flaws, individually and collectively, the work products deriving from this process, including the TSP/PA and the PIR/EIS for the TSP/PA, are themselves administratively, legally, and technically fatally flawed. To correct these serious errors of omission and commission and the consequences thereof, I

recommend issuing a revised PEIS for CERP and a revised project-specific PIR/EIS for a new TSP/PA using water quantity and quality models developed by or for USACE, USGS, and/or USEPA evaluating the benefits and detriments associated with a modification of Alternative 6 which proposes a breaching the Herbert Hoover Dike (HHD) surrounding Lake Okeechobee and a spillway/flow-way to spread and route that flow into the upper portions of Remnant Impounded Everglades. This will allow a more natural quantity, quality, timing, and routing of flow than the present TSP/PA, while reducing the flood risk from dike collapse and the damages to the Indian River Lagoon and Caloosahatchee River estuary from excessive freshwater releases required to relieve pressure on the dangerously failing HHD.

Introduction

Although perhaps 20% of the water flowing into the Everglades originates with Lake Okeechobee releases, 80% comes from stormwater runoff and groundwater recharge from the Everglades Agricultural Area (EAA). In South Florida evaporation and plant transpiration (evapotranspiration) are roughly equal to rainfall, so rainfall dilution is not a reliable solution to pollution. The nutrient-rich overflow from the pre-development Lake Okeechobee resulted in the deposit of a thick layer of peat over the exposed rock over thousands of years. When that peat soil dries out, it is slowly oxidized by the oxygen in the air to carbon dioxide. The oxidizing peat soil leaches dissolved organic carbon (DOC), which absorbs the wavelengths of sunlight required for plant photosynthesis. As a result, nutrient-limited plant growth can switch to lightlimited plant growth for submersed aquatic vegetation (SAV) in a few feet of surface water contaminated with EAA leachate. Peat oxidation also releases the toxic substances precursors such as the most stable oxidized form of sulfur (S), sulfate. Peat soil oxidation also releases heavy metalloids and metals, including arsenic and inorganic mercury (IHg). Some of the IHg in EAA soil is inadvertently transformed by sulfate-reducing bacteria (SRB) in wet soils under conditions virtually devoid of oxygen (anaerobic) into a much more toxic and bioaccumulative form, methylmercury (MeHg). Other abiotic and biotic processes convert some of IHg into elemental mercury, which is a liquid at room temperature. The total mercury (THg) in EAA runoff, groundwater, and surface water consists primarily of IHg, MeHg, and elemental mercury (Hg(0)). Most of the Hg(0) in soil and some of the Hg(0) in surface water is lost to the atmosphere via a process known as volatilization or evasion.

The sulfate in EAA runoff passes through the STAs virtually untreated into the Everglades, where it is converted into toxic hydrogen sulfide by SRB in anaerobic surficial sediments. The hydrogen sulfide can accumulate to toxic levels in the sediment pore water, but its concentrations in the overlying surface water are rapidly diminished by the process of oxidation in the presence of dissolved oxygen (DO). Nevertheless, the hydrogen sulfide concentrations in the surface water at the sediment/water interface often exceed the 2 micrograms per liter (ug/L) Water Quality Criterion (WQC) published by the U.S. Environmental Protection Agency (USEPA) in its Red Book to protect sensitive aquatic species the feed on or live in the surficial sediments. The set of narrative Water Quality Standards that each state must officially issue (promulgate) and enforce under the Federal Clean Water Act (CWA) precludes the presence of toxic substances in toxic amounts at any time in fishable and swimmable waters like the Everglades, irrespective of whether a numerical WQS has been promulgated for that substance. That also applies to the pesticides in EAA runoff.

The IHg and MeHg in EAA runoff are routed through the STAs, where about 50% to 75% of both are removed by various physical, chemical, and biological processes. Nevertheless, what remains represents an unnatural loading rate of IHg and MeHg to the upper portion of the remnant Everglades. These watershed-specific contribution to the IHg load were not taken into account in FDEP's statewide approach to mercury TMDL development and implementation (Attachment III), despite the fact that the Everglades has been officially listed under the Clean Water Act as mercury-impaired, because the fish are contaminated with levels of MeHg high enough to prompt a public health advisory for humans making recreational or subsistence use of the Everglades or the C&SF Canal system as a fishery. To this unnatural load is added the MeHg that is produced from the IHg in rainfall by the same SRB that convert sulfate to toxic hydrogen sulfide. The high levels of MeHg in mid- and top-predator fish also expose fish-eating wildlife to levels of MeHg sufficient to interfere with normal brain function (neurotoxicity) sufficient to interfere with other life functions, such as hunting for food, avoiding predators, and mating for reproduction. In many cases the MeHg that passes from mother to the embryo in the egg or uterus is at high enough concentrations to cause neurotoxic effects in the next generation and less frequently at levels that are lethal to the developing embryo or fetus.

CEPP is intended to accelerate the planning of key project elements of the Comprehensive Everglades Restoration Plan (CERP), which is authorized and constrained by the Water Resources Development Act (WRDA) of 1996 and 2000. Because CERP subsumes CEPP, by extension, these same constraints apply to CEPP without exception. The constraints include the general proscription against causing or contributing the violation of any applicable Federal law, regulation, or standard, which subsumes the explicit proscription against the violation of any duly promulgated narrative or numerical Water Quality Standard applicable to the Everglades, Biscayne Bay, or Florida Bay, any Total Maximum Daily Load (TMDL) based on that WQS, and any Water Quality-Based Effluent Limit based on that TMDL pursuant to Section 303 of the Federal Clean Water Act (CWA). In this context, the applicable WQS, TMDLs, and WQBELs include those promulgated, derived, and issued by the State of Florida and the sovereign nations of the first peoples living in or discharging to the Everglades, Biscayne Bay, or Florida Bay, including the Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida.

The acceleration of CERP planning process for CEPP necessarily required the adoption of assumptions, approximation, interpolation, and extrapolations that necessarily increased the uncertainties associated with the likelihood of attaining and maintaining the target stage, flow, duration, and frequency specifications associated with the various physical, chemical, and biological performance measures adopted by the USACE-Jacksonville and SFWMD over the area to be restored and avoiding unacceptable adverse impacts within and downstream of the restored areas with the required magnitudes, durations, and frequencies at the required confidence levels for avoiding committing unacceptable Type I error, concluding that the project is not attaining performance objectives when it is or is causing significant downstream adverse impacts when it is not, and unacceptable Type II error, which is the opposite of Type I error. In such circumstances, it is standard professional practice for engineers to increase the margins of safety in project element designs, operating plans, and maintenance schedules under routine, extreme weather, and various failure modes to increase the likelihood of achieving the desired outcome and to decrease the likelihood of causing or contributing to adverse impacts, including

but not limited to the loss of life, limb, or property. This was not done. This also results in the systematic underestimate of the cost of the construction, operation, and maintenance of these project elements and the systematic underestimate of the unreasonable risks associated with the various alternatives, including that eventually recommended as the PA/TSP. The appropriate Florida licensing board should determine whether this constitutes a significant violation of professional standards of practice and ethics that puts the professional engineering licenses of those involved in jeopardy. Being ignorant of or having been ordered by a government agency or private entity to violate these professional norms is not a defense for professional irregularities or the consequences that flow therefrom.

Violations of the Clean Water Act: Nutrients

CEPP planners claim that they did evaluate the downstream water quality impacts of the various CEPP alternatives selected for detailed analysis based on the concentration of total phosphorus (TP) in the areas to be restored using some modified version of the Dynamic Model for STAs (DMSTA). However, I am unaware of any graphs or maps that displayed the magnitude, duration, and frequency of exceedance of the 10 ppb TP WQS at key compliance nodes over time, especially in areas in the upper portions of the impounded remnant Everglades already impacted by inadequately treated EAA runoff.

To circumvent this problem, with the complicity of FDEP and USEPA Region 4, SFWMD and USACE-Jacksonville make a distinction between the water quality of unimpacted areas, where the discharge cannot cause further impairment, and the impacted areas, where the discharge can be higher, because the area is already polluted. Unfortunately, the CWA makes no such distinction, and, where the historically contaminated sediment is contributing to the pollution of the overlying water, without a commitment to remediate that condition, the discharge of pollutants to that area must be lower, not higher, to allow the system to recover naturally by burying out the contamination with clean sediment or peat soil.

By allowing SFWMD and USACE-Jacksonville to adopt this unlawful subterfuge, FDEP, with the complicity of USEPA Region 4, has created an implicit permanent zone of variance from the TP WQS. Under the CWA, there is no provision for an implicit variance, and an explicit variance must be requested and granted for a period of no more than three years, after which it can be reissued only if the discharger has made a good faith effort to reduce the discharge and/or to remediate the sediments by dredging, stabilization, or harvesting of rooted macrophytes for bioremediation to prevent recycling of the contaminants. No CEPP alternative includes contaminated sediment remediation. That being the case, in areas where the contaminated sediment is causing the overlying water column to violate a WQS, the assimilative capacity of the receiving water has been exceeded, and the Water Quality Based-Effluent Limit is 0, which is enforced at the method detection limit of the USEPA-approved analytical method for that pollutant. The NPDES permits for the STAs by USEPA Region 4 do not take this into account.

Violations of the Clean Water Act: Non-Nutrients in the Form of Mercury

All of the Everglades and portions of Florida Bay are listed under the Clean Water Act as mercury-impaired, as a consequences of the public health advisories issued by the State of

Florida and the Everglades National Park, beginning in 1989 and 1995, respectively. While the majority of the planners, scientists, and engineers in the Federal, State, and Local government agencies were focusing on regulating the excess TP in EAA stormwater runoff, a consortium of government, academic, and private sector scientists organized as the South Florida Mercury Science Program were conducting monitoring, research, and modeling to understand and solve the Everglades and Florida Bay mercury problems.

In the period 1995-1999 recognized experts in the field determined that the methylmercury was being produced from inorganic mercury (IHg) primarily by sulfate-reducing bacteria (SRB) and primarily in the surficial sediments under anoxic conditions where dissolved oxygen is essentially absent but organic carbon is abundant. The addition of sulfate in excess of natural background levels stimulated inorganic mercury methylation up to a maximum, beyond which the sulfide produced as a byproduct of SRB metabolism inhibits methylation by a mechanism that has not been explained to scientific certitude. Solving the Everglades methylmercury problem by driving it into sulfide inhibition is not a viable option, however, because sulfide in its hydrogen sulfide form is toxic in its own right and the sulfur cycle interacts with the P cycle in ways that could decrease its storage and increase its release from the pre-ECP contaminated sediments.

Subsequent controlled field studies conducted in large open containers (mesocosms) were able to reproduce these conditions, while determining that almost all of the inorganic mercury that was available to SRB for methylation was coming from the atmosphere, primarily in rain. In one of the great achievements of applied science of this or any other age, these phenomena were then reproduced at the watershed scale by pulse-dosing the watershed and lake in the Experimental Lakes Region in Canada with those same stable mercury isotope tracers and monitoring the lake's methylmercury production and bioaccumulation in fish over time.

By the late 1990s SFMSP scientists had concluded that it was more likely than not that the unnatural concentrations of sulfate in EAA runoff were causing or contributing to the downstream Everglades mercury problem and that the engineered wetlands constructed to remove excess nutrients, what we know as Stormwater Treatment Areas (STAs), were not able to remove the excess sulfate. At the turn of the 21st Century the high-sulfate water from EAA stormwater runoff was rerouted out of WCA-3A and into the C&SF Project canal system to avoid violation of the TP WQS and to protect the habitat of the Cape Sable Seaside Sparrow, while still providing water to keep ENP hydrated. Subsequently, the methylmercury production and bioaccumulation "hot spot" moved from the bottom one-third of WCA-3A to the top of the ENP in an area supplied with water from the L-67A stub canal. Now correlation is not causation, but the results of dosing of the mesocosms located at the new "hot spot" with a combination of stable mercury isotopes, sulfate, and dissolved organic carbon suggest that the rerouting of the EAA runoff from WCA-3A to ENP caused the recovery of WCA-3A at the expense of the degradation of the ENP.

The rerouting of high sulfate water out of WCA-3A and into the northern portion of the ENP has caused or contributed to the rerouting of the MeHg hotspot in largemouth bass from the center of WCA-3A to the top of ENP. However, although it has been discussed in South Florida Environmental Reports

(http://www.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/2013_sfer/v1/chapters/v1_ch3b.pdf;http://www.sfwmd.gov/portal/page/portal/xweb%20about%20us/agency%20reports) and perhaps USEPA Region 4's REMAP reports

(http://www.epa.gov/region4/sesd/reports/epa904r07001.html), neither the Corps nor SFWMD has officially recognized this phenomenon, and neither FDEP nor USEPA Region 4 has officially acknowledged that sulfate in excess of natural background levels is causing the unacceptable impacts on recreational and wildlife uses associated with the observed excess methylmercury (MeHg) production and bioaccumulation effects.

In contrast, to prevent a third, first-flush MeHg anomaly in STA-2 Cell 1 from becoming an endangered species disaster when it was scheduled to be reflooded in the summer of 2003, SFWMD officially invoked the influence of the sulfur cycle on the mercury cycle to justify a deviation from the standard start-up protocol. The permit-mandated protocol involves holding the flood water until the total mercury (THg) and MeHg concentrations in the interior are less than the inflow. Unfortunately, this maximizes the short-term bioaccumulation, exposure, and risks to fish-eating wildlife, while fostering long-term recycling from dying plants that absorbed the undiluted first-flush pulse, resulting in a reservoir effect that could perpetuate the problem for a decade or several. As a consequence, SFWMD petitioned FDEP for a temporary modification or variance that would allow SFWMD to operate STA-2 Cell 1 in flow-through mode during start-up until sulfide in sediment pore water built up to inhibitory levels, thereby putting the sulfide brake on excess MeHg production from the bioavailable inorganic mercury flux from the oxidized wet soil.

FDEP officially approved that petition with the review and approval of USEPA Region 4, so both agencies have gone on public record as recognizing the influence of the sulfur cycle on the mercury cycle and the substantial risks that sulfate-mediated first-flush MeHg anomalies present to wildlife, including and especially endangered fish-eating species and their predators. (http://www.law.miami.edu/library/everglades/reports/2002/01/Everglades_Cons_Report/Appendices/App4A-7.pdf). I was the sole author of the report supporting that petition. The start-up alternative was successful, as evidenced by the reduction in the peak MeHg concentrations in trophic level 2, 3, and 4 fish and the corresponding risks to fish-eating wildlife, including the bald eagle with a nest in Cell 1

(http://link.springer.com/article/10.1007%2Fs10661-006-0767-4#page-

1; http://www.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/2006_sfer/volume1/appendices/v1_app_4-

7.pdf; http://www.tandfonline.com/doi/abs/10.1080/10807030590925768#.Ulty7VBptZ0), despite the then world record peak MeHg concentration of 20 ng/L in surface water set by the third, first-flush MeHg anomaly in STA-2 Cell 1. Conversely, if STA-2 had not stabilized in response to sulfide inhibition, Cell 1 would have had to have been abandoned, setting Everglades restoration back by years and the taxpayers by tens of millions of dollars. Thus, sound policy and permit decision-making flowed from the comprehensive analysis, integration, and synthesis of the results of well-designed, carefully executed, and peer-reviewed mercury monitoring, research, and modeling studies

(http://my.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/ecr2003/appendices/app2b-5.pdf), some of which were outlined in the Programmatic EIS issued by USACE-Jacksonville for the Everglades Construction Project (ECP)

((http://mwaldon.com/Loxahatchee/GrayLiterature/ECP-EIS-1996/)) and mandated by the Section 404 Dredge and Fill permit issued to SFWMD for construction and operation. These unacceptable risks extend to the downstream Everglades

(http://www.ncbi.nlm.nih.gov/pubmed/18679795). The Florida Fish and Wildlife Conservation Commission is well-aware of the monitoring, research, and modeling that supports the findings, conclusions, and recommendations of unreasonable risk to fish-eating wildlife in general and endangered species and their predators in particular

(http://research.myfwc.com/publications/publication_info.asp?id=57831). This is also true of the U.S. Fish and Wildlife Service, which has been monitoring THg as MeHg in Florida panther fur and blood with FDEP assistance since 1989 (http://www.panthersociety.org/mercury.html).

USACE-Jacksonville recognized these potential adverse mercury impacts in is Programmatic EIS for the Everglades Construction Project (ECP) it published as final in 1996 (http://mwaldon.com/Loxahatchee/GrayLiterature/ECP-EIS-1996/) and the need to conduct monitoring, research, and modeling of the mercury cycle in the constructed wetlands and the downstream impounded Everglades in the 404 Dredge and Fill permit it issued to the construction and operation of the STAs in 1997. As the Corps notes in its own summary of its authorities and responsibilities:

http://www.evergladesplan.org/facts info/sywtkma corps faq.aspx

No Congress granted that differences that agencies, Under the Clear Water Act, the Environmental Protection Agency (EPA) and antiselved state and tribul governments protection and enforce water quality translateds. The Corps cannot used an individual permit until the applicant obtains water quality certification from EPA or the appropriate state of tribul government and does not usual the permit and all water quality concerns mixed by the EPA large been addressed.

Under the organization of the multi-agency, multi-entity South Florida Mercury Science Program, which began in the mid-1990s, world-class scientists have conducted well-designed, quality controlled, and peer-reviewed monitoring, research, and modeling studies within a mass balance framework to understand and solve the Everglades mercury problem. These studies and annual reports also fulfilled the permit compliance mandates in the Section 404 Dredge and Fill permit issued to SFWMD by USACE-Jacksonville for the Everglades Construction Project (ECP) and the Section 402 NPDES permits issued by USEPA Region 4 and Everglades Protection Act permits issued by FDEP for the Everglades Nutrient Removal Project and each of the STAs as they came on-line. The main chapter and supporting appendices in the Everglades Interim Report published by SFWMD in 1999

(http://my.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/interimrpt_98/ch_pt7.pdf) and every annual report thereafter (incorporate by reference all main chapters and supporting appendices 2000-2013:

http://www.sfwmd.gov/portal/page/portal/xweb%20about%20us/agency%20reports) has analyzed, integrated, and synthesized the results of those and other relevant studies conducted by, for, or in conjunction with SFWMD staff on the mercury and sulfur chemical species distributions, sources, biogeochemistries, bioaccumulation, and effects, including but not limited to the influence of the sulfur cycle on the mercury cycle.

At the turn of the 21st Century, the state-of-the-science of the influence of the Everglades sulfur cycle on the Everglades mercury cycle was compiled in a report in an appendix to the mercury chapter in the 2003 SFER prepared by SFWMD's Mercury Program Manager (http://my.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/ecr2003/appendices/app2b-5.pdf). At the beginning of the second decade of the 21st Century, the publication of a paper by the leading experts in the USGS, FDEP, USEPA and Smithsonian represents the state-of-the-science on the distribution, sources, biogeochemistry, effects, and management of sulfur in the Everglades

(http://water.usgs.gov/nrp/proj.bib/Publications/2011/orem_gilmour_etal_2011.pdf). Their key findings, conclusions, and recommendations are consistent with what FDEP and SFWMD scientists have published in the annual South Florida Ecosystem Reports on mercury and sulfur in the Everglades over the last decade, the most recent credible manifestation of which is the 2013 report co-authored or edited by FDEP's Don Axelrad, Florida's Statewide Mercury Coordinator

(http://www.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/2013_sfer/v1/chapters/v1_ch3b.pdf).

The analysis, integration, and synthesis of the results of sound empirical science based on well-designed, carefully conducted, and peer-reviewed monitoring, research, and modeling studies within a mass balance framework support the following key findings, conclusions, and recommendations:

- Based on sulfur isotope and mass budgets, excess sulfate in the Everglades originates primarily with the continuing use of sulfur and sulfate soil amendments in the EAA and the release of legacy sulfur from the oxidation of drained peat soils, not connate sea water from the breaching of the confining layers during the construction of the primary canal system or secondary canal networks for the C&SF Project.
- Excess sulfate in EAA runoff causes or contributes to the presence of toxic substances in toxic amounts in the Everglades in the form of excess hydrogen sulfide.
- Excess sulfate in EAA runoff causes or contributes to a disruption of other natural cycles in the Evergaldes, including the carbon and phosphorus cycles.
- Excess sulfate in EAA runoff exerts a deterministic influence on the mercury cycle in the Everglades, stimulating excess methylmercury production up to a maximum, beyond which excess sulfide inhibits methylmercury production.
- The risks to humans and fish-eating wildlife and their predators exposed to this excess methylmercury bioaccumulating in the Everglades food chain are in excess of safe levels in some locations.

Based on these key findings, conclusions, and recommendations, the increase in the excess MeHg production, bioaccumulation, exposures, and risks associated with the routing of

inadequately treated excess sulfate in EAA runoff into the downstream Everglades to rehydrate it, irrespective of how well-intentioned, is unlawful. The Everglades should not be rehydrated with EAA runoff unless and until it is treated to remove sulfate in excess of the Everglades Restoration Performance Objective of 1 mg/L, because to do so would cause or contribute to a violation of duly promulgated and enforceable antidegradation provision, the narrative and numerical Class III Water Quality Standards (WQS) and the Federal Court-ordered Total Maximum Daily Loads (TMDLs) developed to implement them under the Federal Clean Water Act. Because the rerouting of inadequately treated sulfate in EAA runoff into the Everglades causes or contributes to an unacceptable risk to threatened and endangered species and their predators in the downstream Everglades, Big Cypress National Preserve, Biscayne Bay, and Florida Bay, and is, therefore, an unlawful taking under the Federal Endangered Species Act and the Marine Mammal Protection Act. That being the case, the TSP/PA violates the prescriptions and proscriptions in WRDA 1996 and 2000, both of which preclude the violation of any Federal law, regulation, or standard in the process of restoring the Everglades.

Moreover, the PIR/EIS prepared to justify the TSP/PA over viable alternatives does not comply with NEPA. First, there is no provision in NEPA that allows a Federal agency to suspend the requirement for reasonable assurances that there will be no significant adverse environmental impacts or irretrievable commitment of resources from the TSP/PA. To conform to the requirements of NEPA, the PIR/EIS must identify and evaluate all foreseeable adverse environmental impacts associated with the TSP/PA explicitly. They include all the foreseeable adverse environmental impacts identified above associated with rehydrating the Everglades with inadequately treated EAA runoff. If, subsequent to the finalization of the revised PIR/EIS. FONSI, and ROD, the required permits for the TSP projects are issued by the responsible Federal, Florida, and local agencies without the required reasonable assurances based on a claim of net benefit to the Everglades, the permit application process must still make that explicit rather than implicit, as is now the case in the Draft PIR/EIS for the proposed TSP/PA for CEPP. Second, such an approach presupposes that resource managers can reverse the consequences of the adverse impacts of all of the foreseen problems, including the failure to remediate contaminated sediments in Lake Okeechobee and the impacted areas of the Everglades, retarding the recovery of both; the creation of a permanent zone of variance in the upper portion of the Everglades where inadequately treated EAA runoff will be discharged; and the presence of toxic substances in toxic amounts, use impairment, and unacceptable risks to humans and wildlife subsisting on methylmercury-contaminated Everglades fish, shellfish, reptiles, or birds.

Clearly, the process and approach adopted by USACE-Jacksonville and SFWMD to develop, select, and evaluate the environmental impacts of the TSP/PA and various viable alternatives has resulted in the selection of a TSP/PA that is unlawful. The TSP/PA is also dangerous, because it assumes that the Everglades can survive the damage that will be done by rehydrating it with inadequately treated EAA runoff and that any serious harm that arises is reversible. If not, by the time anybody can prove beyond reasonable doubt that the agencies did irreversible harm to the Everglades with this gambit, the officials who blundered in their resource restoration decision-making will be long retired. Just as clearly, the CEPP process and approach adopted by the agencies to expedite the selection of the TSP/PA ignores the history of environmental disasters, many of which were the result of the unintended consequences of otherwise well-intentioned

actions, where haste made waste, and/or where sound science was trumped by sound politics. Thus, what they are proposing is also profoundly unwise.

Neither the USEPA Region 4 nor FDEP in its Federal or Florida review of and comment on this Draft PIR/EIS for the CEPP TSP/PA or its subsequent water quality certifications for the proposed CEPP projects can suddenly develop adverse environmental impact amnesia as regards the influence of the excess sulfate in EAA runoff on the downstream mercury cycle for purposes of preparing a scientifically accurate and legally defensible PEIS for CERP or CEPP, any project-specific PIR/EIS, or for purposes of establishing the required reasonable assurances needed to issue the various permits required for the various infrastructure elements of CERP or CEPP

(http://www.saj.usace.army.mil/Portals/44/docs/regulatory/Items%20of%20Interest/Everglades%20A-1/Chapter%208%20-%20Permits%20and%20License.pdf). Just asserting that water quality will not be a problem for the TSP/PA or any of its viable alternatives in the draft project-specific PR/EIS for the TSP/PA does not make it so. If one wants to make a net benefits argument, that is, the benefits of rehydrating the Everglades with a polluted water supply outweigh the detriments, that assertion must be explicit, not implicit, and it cannot result in the irretrievable commitment of resources in the form of an irreversibly damaged Everglades if the agencies responsible for restoration guess wrong and the detriments outweigh the benefits.

These comments are intended to jog the institutional memories of all of the responsible agencies in these regards to avoid administrative and judicial challenges to CEPP and then CERP that could delay these projects for years, even if the benefit of complete build-out to the Everglades, Biscayne Bay and Florida Bay will not be felt in what remains of my lifetime, while the MeHg and hydrogen sulfide detriments of rerouting high-sulfate runoff and leachate water from the EAA into the Everglades to rehydrate it will be almost immediate.

L-8 Reservoir Project

One of the environmentally significant changes in Everglades restoration engineering design and operation that has occurred between the preparation of the PEISs for the Everglades Construction Project (ECP) and the EAA Reservoir Project then and the preparation of the PIR/EIS for CEPP now is that EAA stormwater runoff and Lake Okeechobee release load-leveling for the STAs was to be accomplished by one large, deep, above-ground reservoir that dries out and rewets infrequently but is now to be accomplished by three, low-head, above-ground reservoirs that dry out and rewet frequently. One of these three shallow reservoirs has subsequently been replaced by the L-8 Reservoir Project (L8RP), a ~1,000-acre, ~40-ft deep, below-ground reservoir created by repurposing a series of limestone quarry pits that would otherwise have been abandoned and allowed to fill as an artificial lake by the owner, Palm Beach Aggregates (PBA).

As a consequence of breaching the confining layer during mining, the water quality of the water in the L8RP is substantially and inherently different than the water quality in EAA stormwater runoff and Lake Okeechobee releases, even after being flushed out with EAA stormwater runoff and Lake Okeechobee releases. The most problematic of these differences is the irreducibly high levels of sulfate and its influence on the downstream Everglades sulfur and mercury cycles. However, these differences were ignored in making this substitution and in the draft PIR/EIS for

CEPP that incorporates this substitution. Even if the draft PIR/EIS is revised to acknowledge these differences, the water quality model that was used to model nutrient removal in the reservoirs, reservoir-assisted STAs, and the nutrient-impacted and nutrient-unimpacted areas downstream, DMSTA, cannot model the influence of excess sulfate on the downstream sulfur or mercury cycles.

The set of limestone quarry cells that comprise the approximately 40,000 acre-ft L8RP was originally purchased by SFWMD from PBA to store excess wet-season water from L-8 Basin runoff and Lake Okeechobee releases to meet dry season minimum flows and levels of the Northwest Fork of the Loxahatchee River, an Outstanding Florida Water, portions of which are protected as Wild and Scenic. It is also officially listed as mercury-impaired with USEPA Region 4 by the State of Florida under Section 303(d) of the Clean Water Act (http://iaspub.epa.gov/tmdl/attains_waterbody.control?p_list_id=FL3226A&p_state=FL&p_cycl_e=2010). The various cells of this below-ground, man-made reservoir were left behind after the lawful mining of limestone under applicable county, state, and federal permits without any discharge to surface waters.

During and after mining, the 40-ft deep cells filled with a combination of net rainfall, water used and produced in the mining process, and seepage of connate water through the unconfined, high permittivity layer beneath the confining limestone layer that was breached toward the end of the active mining period. Concerns about the effect of this seepage on the viability of the L8RP as a storage reservoir prompted SFWMD to include the requirement that PBA conduct a water budget study to demonstrate that the seepage rate was acceptable prior to final transfer of the property to complete the sale. In the weeks preceding the test, which began on February 9, 2009, the L8RP was drawn down about 10 feet by a temporary pump, rather than the 20 feet specified in the purchase agreement, because that is all the temporary pump could deliver. The test was completed three weeks later at the end of February, and the test demonstrated to SFWMD satisfaction that the seepage rate was within contract specifications, even after the estimate was doubled to approximate the effect of a 20-ft draw-down. However, according to the relevant stage and flow data in DBHYDRO

(http://www.sfwmd.gov/portal/page/portal/xweb%20environmental%20monitoring/dbhydro%20 application), no pumping in or out of the L8RP occurred until June 2009, so the increase in stage, less rainfall plus ET, is the seepage rate during that 119 day period. From February 9, 2009, to May 31, 2009, there was 13.7 inches of rainfall recorded at S-5A, an average of 0.24 inches per day of pan evaporation, while the stage increased from -0.13 ft NGVD to 9.83 ft NGVD on May 31, 2009. Assuming ET averaged 85% of pan evaporation during that period, the seepage rate of about 0.087 feet per day at a 10' drawdown, and likely exponentially higher as the overlying head is reduced, because seepage is likely to be coming predominantly from the bottom of the quarry pits, not the sides, which PBA stipulated had a very low transmissivity. The results of unpublished studies by SFWMD staff conducted in the winter, spring, and summer of 2011 support this inference. The new, full-size pump will no doubt be able to move the L-8 Canal water contaminated with EAA runoff in and out of the L8RP much more rapidly than the temporary pump used in the seepage study.

The seepage contribution from surficial and deep aquifer sources was also evaluated for the Everglades Nutrient Removal Project by Judson Harvey and co-workers at the USGS-Reston

(http://sofia.usgs.gov/publications/papers/quantgwdisnrech/methodology.html). The ENR Project is across Southern Boulevard from the L8RP. In addition to water budget studies, Dr. Harvey was able to infer the relative contributions of shallow and deep aquifers from the ratios of isotope tracers in the water. This was not done for the L8RP. One of Dr. Harvey's USGS-Reston colleagues from the South Florida Mercury Science Program, William Orem, Ph.D., used the ratio of del shifts in sulfur isotopes in groundwater and surface water to demonstrate that sulfur from EAA soil amendments, and not connate water seepage, was the predominant source of excess sulfate to the Everglades (http://water.usgs.gov/nrp/jharvey/pdf/jenvironqual.pdf). This was also not done for the L8RP.

This combination of net rainfall, mining process wastewater, and mining-related groundwater seepage has resulted in average concentrations of chloride and sulfate well above the levels present in surface waters receiving EAA stormwater runoff and Lake Okeechobee releases. Despite the presence of untreated mining process wastewater, the Florida Department of Environmental Protection (FDEP) issued a CERPRA permit in March 2007 for the discharge of untreated wastewater from this industrial category to the L-8 Canal, a Class III water, but not the required NPDES permit under Section 402(b) of the CWA. When the chloride concentrations exceeded the Florida numerical WQS for Class III surface waters, FDEP granted a mixing zone to SFWMD for two years that was extended for another two and is now a permanent feature of the five-year CERPRA permit reissued in January 2012. The permit-mandated downstream monitoring of largemouth bass in the Grassy Waters Preserve (GWP) for total mercury (THg) as methylmercury (MeHg) in edible flesh detected concentrations frequently in excess of USEPA's WQC of 0.3 ppm in fish flesh and occasionally in excess of Florida's action level of 0.5 ppm THg. Nonetheless, FDEP ignored the potential for excess sulfate in the L8RP discharge to exacerbate the mercury impairment of downstream fishable uses and subsequently allowed the permittee, SFWMD, to reduce the frequency of downstream fish mercury monitoring in GWP rather than increase the frequency to detect statistically significant trends.

So problematic was the water quality in the L8RP that USACE-Jacksonville refused to authorize the reimbursement of its cost to SFWMD under CERP as one of the approved Northern Everglades Restoration Projects. Subsequently, to issue NPDES permits for the STAs that would conform to the Judge Gold's Final Judgment, the proposed use of the L8RP was repurposed from storing excess wet-season stormwater runoff and lake releases for dry-season rehydration of the NWFLR to storing those same waters for load-leveling and subsequent routing through the STAs for removal of nutrients prior to discharge of the Everglades. An approximately \$60M pump station was approved by SFWMD's GB for the latter purpose in the summer of 2013. The rehydration of the NWFLR is now to be effected by a new reservoir constructed on partially developed Mecca Farms land. The runoff water used to fill the Mecca Farms reservoir is unlikely to contain the same high levels of sulfate present in connate sea water and EAA runoff, because the canals are generally shallower than those in the central Everglades and because the agricultural lands in the watershed do not control soil pH using sulfur as a soil amendment or oxidize nearly as fast as the rates occurring in the EAA.

Ultimately, only modeling of the sulfate quality of the water under various operational scenarios will be able to quantify the range of sulfate concentrations and loads that will be delivered from the L8RP to the STAs in the eastern flow-way over the CEPP design horizon. Only a mercury

cycling model coupled with a toxicological risk model will be able to translate the excess sulfate into excess risks of methylmercury exposure to humans and wildlife subsisting on fish, shellfish, amphibians, reptiles, and/or birds in the Everglades over that same period. This includes members of the Miccosukee Tribe of Indians who wish to live in a traditional manner in the Everglades. The required modeling for CEPP environmental impact assessment has not been done by or for SFWMD and USACE-Jacksonville in the evaluation of the environmental impacts of the TSP/PA and the viable alternatives associated with routing inadequately treated high-sulfate water from whatever source into the Everglades.

The CERPRA permit-mandated annual water quality compliance report for the L8RP is contained in Appendix 2-2 of SFER 2013:

http://www.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/2013_sfer/v3/appendices/v3_app2-2.pdf. The monitoring results reported by SFWMD staff to FDEP demonstrate a persistent sulfate problem in the L8RP, with the monitored outflow averaging 132.3 mg/L roughly twice the monitored inflow averaging 65.7 mg/L. The outflow average has slowly declined over time, however, suggesting that the unlawful flushing of untreated mining-related process wastewater and seepage diluted with L-8 Canal water back into the L-8 Canal without an NPDES permit is slowly asymptotic to a new steady state sulfate concentration, albeit one still substantially in excess of the average inflow concentration and even more so the RECOVER performance objective of < 1 mg/L. This excess sulfate will then be routed through the STAs virtually untreated into the northern Everglades, where it will cause or contribute to the excess MeHg production, bioaccumulation, exposure, and risks (Fink^3), contrary to the CWA and equivalent Florida water law, as well as WRDA 1996 and 2000. Therefore, the use of the L8RP as a load-leveling reservoir to improve the nutrient removal efficiencies of the STAs is contrary to sound science and engineering concepts, principles, and practices, as well as being unlawful, and unwise.

If it is determined that the breached area is so extensive that it is impractical to reisolate the limestone quarry pits from the unnatural connate seawater flux with a synthetic barrier, then the water quality of these repurposed limestone quarry pits has been irretrievably compromised. If that is the case, FDEP should formally rescind their designation as waters of the state and restore them to the status of abandoned limestone quarry pits, again isolate them from the waters of the state, and only permit them to be used as a water supply for closed system use, e.g., cooling water for the adjacent gas-fired power plant with subsequent deep-well injection of the spent cooling water. If, instead, they are to be used for flood control and water supply, the waters stored therein should only be used to flush out water bodies naturally high in sulfate, e.g., the Lake Worth Lagoon, not the NWFLR or the Everglades. Apparently, USACE-Jacksonville reached the same conclusion as regards the L8RP serving as a water supply for the rehydration of the NWFLR, but not yet for the Everglades.

With or without reservoir assistance, the STAs are not designed to remove sulfate, do not remove sulfate in the mg/L concentration range when operated as designed, as evidenced by more than ten years of inflow and outflow monitoring data, and no minor or major modification of the design or operation will make it possible to remove sulfate in that concentration range. That means that the routing of high-sulfate water from whatever source in excess of the RECOVER performance objective of < 1 mg/L through the STAs and thence to the Everglades is inherently

incompatible with Everglades restoration, because it will cause or contribute to the presence of toxic substances in toxic amounts, e.g., hydrogen sulfide, and/or the exacerbation of the Everglades mercury problem. The sources of excess sulfate in the proposed TSP include sulfate released in oxidizing EAA peat soil, the L8RP, and those canal segments where the confining layer was breached during construction and the flux of connate sea water is substantial. The PIR/EIS for the TSP did not give adequate consideration to the nature, extent, magnitude, duration, and frequency of violations of the general narrative prohibition against the presence of toxic substances in toxic amounts due to the presence of excess hydrogen sulfide or the impairment of the use of the Everglades as a sport fishery or the unacceptable risk of reproductive failure of threatened or endangered fish-eating wildlife species or their predators due to the presence of excess methylmercury to which excess sulfate will contribute.

Therefore, the proposed TSP for CEPP, which makes use of the L8RP, EAA runoff, and the canals of the C&SF Project canals, is inherently incompatible with Everglades restoration. However, if the no toxic substances in toxic amounts and no impairment water quality constraints must be relaxed on the basis of net benefit, a modification of Plan 6, the spillway/flow-way alternative, provides a greater net benefit to the Everglades than the TSP. This is because the breach of the Herbert Hoover Dike at the southern tip of Lake Okeechobee will deliver water to the Everglades of a more natural quantity, quality, routing, and timing than the proposed TSP for CEPP. This alternative will also reduce the reversible and irreversible damages being done to the estuaries from the emergency releases of excess water from Lake Okeechobee, as well as the risk of the loss of life, limb, and property from the catastrophic failure HHD during a 100-year storm when Lake Okeechobee is at the 100-year stage. The PIR/EIS for the CEPP TSP need to be revised to reflect these considerations, ramifications, and implications.

In support of the preceding, please also incorporate by reference the relevant and applicable hardcopy and softcopy records in the files and databases under the immediate control of, centralized files and databases accessible to, and archived files and databases that have been archived and that can be recalled by Ashie Akpoji, Larry Fink, Guy Germain, Boyd Gunsalus, Nirmala Jeyakumar, Beth Kackvinsky, Melissa Meeker, Matthew Morrison, Davies Mtundu, Laura Reilly, David Swift, Robert Verrastro, Michael Voich, and John Zahina and any private contractors for which any of these individuals was the project manager.

Water Quality Modeling

CEPP planners claim that they did evaluate the downstream water quality impacts of the various CEPP alternatives selected for detailed analysis based on the concentration of total phosphorus (TP) in the areas to be restored. The default water quality model used for this purpose was the Dynamic Model for STAs (DMSTA) or some modification(s) thereof. Unfortunately, DMSTA is incapable of modeling any pollutant other than total phosphorus (TP) and has not been peer-reviewed and validated even for that limited purpose. A more detailed list of the capabilities and limitations of DMSTA are summarized in a report from an independent contractor to SFWMD in Attachment IV.

Prior to approval of the EAA Reservoir Project construction and operation permits, the USACE-Jacksonville conducted an extremely limited assessment of the water quality impacts of the alternatives plan formulations and evaluation for the then proposed EAA Reservoir Project, including a side-by-side comparison of the results of the Eutromod and Vollendweider nutrient water quality models with the COE Walker reservoir model, none of which could model dissolved oxygen, sulfate, or mercury, despite these parameters having been identified as of concern for the design and operation of the EAA Reservoir Project, and despite the fact that there were a number of off-the-shelf water quality models, including USEPA's WASP 6, that could simultaneously model TP, TN, chlorophyll-a, DO, and methymercury production and bioaccumulation for input into human health and wildlife risk assessment modules. The link to that report is:

http://wetlandsolutionsinc.com/files/paper_reports/EAA_Water_Quality_Assessment_Report_Pr_elim_Draft.pdf

A 11/14/04 presentation by Robert L. Knight, Ph.D., to SFWMD evaluated the process of plan development and evaluation as regards water quality for the EAA Reservoir Project in general and the performance of DMSTA in particular. Among his recommendations was the need for a dynamic water quality modeling capability for all water quality constituents of concern beyond the capability of DMSTA, then and now.

DMSTA has severe limitations that preclude its use for application to downstream CERP and CEPP water quality impacts. DMSTA cannot distinguish between soluble, particulate, and colloidal P, omits critical processes for P cycling, including the effect of turbidity and color on the transmission of photosynthetically active radiation (PAR) in sunlight as a function of water depth governed by the Beer-Lambert Law, which is critical when evaluating the effect on water quality of storing and treating highly colored EAA runoff at various depths, and the recycling of P from sediments back to the water column by various physical, chemical, and biologuical processes, including particle resuspension, redox-sensitive desorption, and the release of P mined from the root zone from senescing leaves. Instead, these processes are lumped together in a net, long-term average TP setting rate. This long-term average TP settling rate obtained via calibration are then used to calculate dynamic aquatic ecosystem responses on a daily basis. This is both physically unrealistic and contrary to sound modeling practices. This is especially problematic when one is concerned about accurately representing the physics, chemistry, and biology of extreme events far from long-term average conditions that occur only infrequently but can have a cumulative adverse impact on downstream water quality that persists long after the pulse has passed. None of these limitations would have gone unnoticed in a rigorous peer review of the model structure and performance, including the results of a model validation.

As to the importance of using peer-reviewed models in evaluating the water quality impacts of CERP and CEPP, I quote from Page 160 of 267 of the NAS CROGEE Biennial Report on Everglades Restoration

(http://www.nap.edu/openbook.php?record_id=13422&page=9):

"ELM appears to be the only water quality model that has been approved for use by the USACE and that is actually used in CERP project planning (although not widely so). However, it is not listed among the modeling tools for use in the Central Everglades Planning Project

(USACE and SFWMD, 2012). Other water quality models that seem essential to an ongoing Central Everglades Planning Project, such as the Dynamic Model for Stormwater Treatment areas (DMSTA), have not undergone a formal, external peer review. External peer review is important, particularly for models that are used extensively in the planning process, and peer review of the DMSTA is a high priority."

This did not occur prior to, during, or following the use of various versions of DMSTA as the default water quality model for evaluating the water quality impacts of the various CEPP alternatives. Nor was DMSTA demonstrated to be valid for this application by comparing the post-calibration predictions to actual TP data collected along various flow paths in the Remnant Impounded Everglades for a sufficient period of time to encompass a typical range of normal and extreme conditions. That being the case, DMSTA cannot be used to discriminate between alternatives regarding the likelihood of exceeding the magnitude, duration, and frequency of exceedance of the TP WQS in the downstream Everglades, let alone the WQS of other nonconservative water quality constituents of concern, including and especially the production, bioaccumulation and risks from methylmercury. This is especially disconcerting because FDEP and SFWMD partnered to develop a wetlands version of the Dynamic Mercury Cycling Model (DMCM) that had been developed by TetraTech under contract to the Electric Power Research Institute for application to lakes. The Everglades Mercury Cycling Model version I was applied to the well-studied Water Conservation Area -2A (WCA-3A) in the impounded Everglades (http://my.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/consolidated_01 /chapter%2007/chapter%207%20appendices/a07-03.pdf) and version II, which added bottom-up bioenergetics,, cells-in-series, and probabilistic analysis capabilities, was applied to the ENR Project, STA-2 Cell 1, and the flow path along the nutrient gradient in WCA-2A.

Therefore, no weight can be placed on the results of the evaluation of water quality impacts associated with each alternative using DMSTA even just for TP, so the draft PIR/EIS must be considered fatally flawed in this regard. These fatal flaws must be corrected by redoing the water quality modeling for evaluating CEPP alternatives using a general water quality model developed by of for USACE, USGS, or USEPA, augmented by a mercury cycling module. The most recent version of USEPA's WASP model includes a mercury module. In the alternative, the Version II of the Everglades Mercury Cycling Model (EMCM-II) can be run with the general water quality model as input. EMCM-II was developed by TetraTech, Inc., under contract to FDEP, co-managed by Don Axelrad of FDEP and Larry Fink of SFWMD. So SFWMD is well-aware both of its existence and its capabilities.

Findings, Conclusions, and Recommendations

- The CEPP process used to develop, evaluate and select the TSP/PA is administratively, legally, and technically fatally flawed.
- The water quantity and quality modeling tools used to implement the CEPP process cannot be demonstrated to be accurate and precise with levels of confidence sufficient to discriminate reliably between alternatives in a quantitatively rigorous way. The qualitative and semi-quantitative assertions that the CEPP can reliably discriminate between alternatives despite the propagated uncertainties in the assumptions, approximations, interpolations, and extrapolations are unconvincing in this regard.

- The water quality modeling tool used is only applicable to non-nutriuents, so the decision-making process was oblivious to adverse environmental impacts from toxic substances in toxic amounts, including but not limited the extremely toxic and bioaccumulative methylmercury (MeHg).
- As a consequence, the work products that were produced by that fatally flawed process, using these deficient modeling tools, including the TSP/PA, are also fatally flawed.
- A revised Programmatic Environmental Impact Statement (PEIS) is required for this
 precedent-setting administrative action, because the previous applicable PEISs
 incorrectly assume that the water supply for rehydrating the Everglades, Biscayne Bay,
 and Florida Bay will comply with all applicable nutrient and non-nutrient WQS, which is
 not now the case, but the project-specific PIR does not meet the requirements of a revised
 PEIS.
- The revised PEIS would have evaluated the legal and policy implications and ramifications of the precedent-setting environmental restoration programmatic approach that involves improving the quantity, timing, and routing of flow of an outstanding water resource at the expense of degrading water quality by using a contaminated water supply.
- The legal ramifications include causing or contributing to the violation of the National Environmental Policy Act, the Clean Water Act, the Federal Endangered Species Act, and the Marine Mammals Protection Act and to the violation of the Environmental Justice Executive Order by placing minorities and tribal members at disproportionate risks.
- An evaluation of the policy implications of this precedent-setting approach would have
 found that the process results in a systematic violation of Water Quality Standards, Total
 Maximum Daily Loads based on attaining and maintaining WQS at appropriate
 compliance points in the receiving waters, and the creation of implicit variance zones for
 nutrient pollutants, including but not limited to phosphorus, and non-nutrient pollutants,
 including but not limited to methylmercury (MeHg) and hydrogen sulfide.
- By ignoring these water quality constraints, projects that facilitated the continued use of
 the EAA for growing crops under drained conditions cause or contribute to the
 irretrievable commitment of resources in the form of irreplaceable peat soil that will be
 unavailable for future generations of farmers to use.
- Farming practices that result in peat oxidation and the release of non-nutrient toxic substances or their precursors that cannot be treated to safe levels by the STAs are incompatible with South Florida ecosystem restoration.
- Viable alternatives missed as a result of releasing CEPP from its water quality constraints
 include buying up the remaining privately owned lands in the EAA under eminent
 domain for emergency flood water storage with a lease agreement that requires farming
 practices that are compatible with flooded conditions, e.g., rice and aquaculture, and
 whose discharges are compatible with Everglades restoration, because the contaminants
 can be treated to safe levels by the existing STAs without superior technology
 augmentation.
- A spillway/flow-way emergency and routine Lake Okeechobee releases with spreader
 canals is compatible with Everglades restoration, and because Lake Okeechobee water is
 less polluted than EAA runoff, it is less water quality-constrained for the pollutants that
 the STAs cannot treat than is the TSP/PA.

Decades of overfilling of Lake Okeechobee and under-maintaining of the Herbert Hoover Dike (HHD) surrounding it have combined to undermine the HHD to the point that it is now an imminent threat to human life, limb, and property for those living in the flood zones from an uncontrolled catastrophic failure under the combined influence of a high stage and a major storm. This is a plea for the immediate reallocation of U.S. Army Corps of Engineers staff, physical, and fiscal resources from the routine and emergency maintenance, repair, and reinforcement of Lake Okeechobee's HHD to the construction of an emergency release outlet/relief valve to provide a controlled alternative to uncontrolled catastrophic failure of the HHD and the required downstream infrastructure to manage those emergency releases. This new infrastructure includes a spillway/flow-way, levees, diversion canals, and dikes to impound the emergency releases of flood water to be able to prevent a catastrophic uncontrolled failure of the HHD absent that capability. When the spillway is not being operated for the flood water management of Lake Okeechobee emergency releases, it can be operated to convey routine releases from Lake Okeechobee down the spillway/flow-way into the upper portion of the Remnant Impounded Everglades, also known as the Everglades Protection Area. This is a minor modification of the Plan 6 alternative to the TSP.

The modified Plan 6 alternative to the TSP creates a flow-way to carry water directly from Lake Okeechobee to the upper portion of the Remnant Impounded Everglades. Plan 6 also substantially increases the flow into the Remnant Impounded Everglades, but only via bypassing the R-STA system. However, some or all of the nutrient removal provided by the R-STA system could be achieved by spreading the flow over a wider area and allowing it to sheet-flow more slowly through appropriate types and densities of wetlands vegetation before reaching the upper portion of the Remnant Impounded Everglades. Unfortunately, the higher the rate of release, the shorter the contact time, and the higher the concentrations and loads of nutrients that will reach the Everglades, potentially violating the 10 ppb TP WQS promulgated by the State of Florida under the Clean Water Act. In contrast, the wastewater discharge permits already issued for the reservoir-assisted STAs by USEPA Region 4 allow a systematic violation of the TP WQS, effectively creating an implicit variance from the TP WQS at least for the five years the permits are in effect, while the Clean Water Act (CWA) only allows an explicit variance that must expire in three years. For non-nutrient contaminants, e.g., sulfate, arsenic, mercury, and various pesticides, dilution is the solution to pollution, CWA, WRDA 1996 and 2000 prescription and proscriptions to the contrary notwithstanding.

The modified Plan 6 emergency relief valve/outlet and spillway/flow-way alternative to the CEPP TSP is not perfect, but it will prevent the unnecessary loss of life, limb, and property of people living in the shadow of the rapidly failing HHD, which is one major storm away from catastrophic failure. It will also reduce the magnitudes, durations, and frequencies of emergency releases of Lake Okeechobee flood waters to both estuaries, diminishing the danger to threatened and endangered species, marine mammals, and their habitats, as well as decreasing the damage to the recreational, commercial, and aesthetic uses of and services provided by the estuaries and the economic values assigned to both. Waterwise Consulting, LLC, commends the modified Plan 6 alternative (Attachment V) to the attention of USACE-Jacksonville and its local sponsor, SFWMD.

Attachment I: (A) Letter of Larry E. Fink, M.S., Waterwise Consulting to Shannon Estenoz and (B) Her Reply and (C) Larry E. Fink's Response regarding the water quality constraints imposed on the selection of the TSP/PA as a result of the deterministic influence of excess sulfate in EAA runoff on the Everglades sulfur and mercury cycles.

Attachment II: E-Mails to and From Walter Wilcox identifying deficiencies in the water quality models in general and mercury modeling in particular.

Attachment III: Formal Public Comments Submitted to FDEP on the Draft Statewide Mercury TMDL Report, including but not limited to the need for waterbody-specific mercury TMDL for the Everglades and Florida Bay that take into account the influence of the sulfur cycle on the mercury cycle.

Attachment IV: Evaluation of Water Quality Model and Modeling for Plan Development and Alternatives Evaluation

Attachment V: Modified Alternative 6

To support these written public comments, please also incorporate by reference the following into these written public comments:

- All of the meteorological, hydrological, and water quality data in the DBHYDRO.
- All interim and final water quantity and quality model runs to support the design and evaluation of CEPP alternatives and the preparation of the draft projectspecific PIR/EIS for the TSP.
- Every reference in the main report and appendices of the draft project-specific PIR/EIS for the TSP/PA.
- The Everglades Interim Report 1999 and all subsequent South Florida Environmental Reports published through 2013.
- All formal peer review comments on any aspect the CEPP process and interim
 and final work products, including but not limited to the draft project-specific
 PIR/EIS for the TSP.
- All Federal, Florida, and local agency review comments, informal and formal, internal and external, unofficial and official, unpublished and published, interim and final, on any aspect the CEPP process and interim and final work products, including but not limited to the draft project-specific PIR/EIS for the TSP.
- All of the interim and final questions and comments submitted and presentations
 made by Larry E. Fink, M.S., Owner and Principal, Waterwise Consulting, LLC,
 on any aspect of the CEPP process or its interim or final work products.
- All formal responses prepared by or for SFWMD staff to any of the questions or comments submitted by Larry E. Fink, M.S., Owner and Principal, Waterwise Consulting, LLC, on any aspect of the CEPP process or its interim or final work products (a) published on the South Florida Ecosystem Task Force (SFERTF) website; and (b) prepared but never published on the SFERTF website.
- All internal public records created by or for SFWMD staff discussing or commenting on any of the questions or comments submitted by Larry E. Fink, M.S., Owner and Principal, Waterwise Consulting, LLC, on any aspect of the CEPP process or its interim or final work products.
- All public records produced by SFWMD in response to a public records request regarding the selection of DMSTA as the default water quality model for

evaluating the downstream water quality impacts of the various combinations of infrastructure design and operating alternatives for CEPP.

Thank you for this opportunity to comment on the Draft PIR/EIS for the TSP/PA for CEPP.

Sincerely,

Larry E. Fink, M.S. Owner and Principal

Waterwise Consulting, LLC

Lang Fun

1601 S. Ocean Drive

Suite 406

Hollywood, FL

33019-2405

Attachment I: (A) Letter of Larry E. Fink, M.S., Waterwise Consulting to Shannon Estenoz and (B) Her Reply

Attachment II: E-Mails to and From Walter Wilcox

Attachment III: Formal Public Comments Submitted to FDEP on the Draft Statewide Mercury

TMDL Report

Attachment IV: Evaluation of Water Quality Model and Modeling for Plan Development and

Alternatives Evaluation

Attachment V: Modified Alternative 6

Attachment I

Subject: Re: Increasing Vulnerability of CEPP to Third-Party Challenges on the Mercury Issue

From: Larry E. Fink (larryfink@waterwiseconsulting.com)

To: Shannon Estenoz@ios.doi.gov; evergladesrestoration@yahoo.com;

mjmorris@sfwmd.gov; Robert Johnson@nps.gov; dduke@sfrestore.org;

Cc: achildress@sfrestore.org; barry rosen@usgs.gov; greg.knecht@dep.state.fl.us;

Nick Aumen@nps.gov;

Monday, March 26, 2012 1:33 PM Date:

March 26, 2012

Shannon Estenoz, Director Office of Everalades Restoration Initiatives United States Department of the Interior Florida International University 11200 SW 8th Street, OE 165 Miami, FL 33199

Phone: (305) 348-1665 Direct Line: (305) 348-1660 Cell Phone: (786) 350-9401 Fax: (305) 348-1667

Dear Ms. Estenoz:

The set of questions I posed to SFWMD and USACE-Jacksonville staffs at the January 25, 2012, public workshop on the PIR/EIS went to the heart of the matter of how sound science guides sound restoration decision-making in the accelerated CEPP process. The absence of a timely and substantive response from SFWMD and USACE staffs is problematic. I will continue to escalate the issue until a substantive response from support staffs is forthcoming, even if it is no longer timely.

The exception to the unresponsiveness of USACE and SFWMD staffs is SFWMD's Walter Wilcox, who replied at the January 25, 2012, meeting that a rigorous probabilistic uncertainty analysis had not been and could not be performed on the hydrology models used in planning Everglades and Florida Bay restoration infrastructure design, operation, maintenance, and repair. Follow-up questioning at and between subsequent meetings revealed this was also true of the water quality models.

Thus, decision-makers were, are, and will be uninformed as to the quantitative probabilities of incorrectly concluding that Everglades will meet its water quantity and quality performance objectives when it will not. Instead, restoration decision-makers will have to rely on qualitative representations of the confidence the modelers have in their own work. Not surprisingly, the modelers are comfortable with their results, even after USGS staff brought to their attention the uncertainties introduced by their mathematical

representations of such fundamental properties as evapotranspiration and resistance to flow. The former significantly impacts the Everglades water budget and the latter the flow-stage relationship.

Therefore, your reliance on SFWMD and USACE staffs for CEPP technical support is also problematic. Nevertheless, if you are relying on the experts in other Federal agencies for oversight and peer review on issues such as mercury and sulfate, I recommend that SFERTF hold a public workshop on the issue with presentations and Q&A session with recognized experts on the Everglades mercury and sulfate problem, including USGS's David Krabbenhoft, Ph.D. and William Orem, Ph.D.

Thank you for your attention to these concerns and recommendation for a public workshop on the mercury and sulfate issue.

Sincerely,

Larry E. Fink, M.S. Waterwise Consulting, LLC

From: "Estenoz, Shannon A" <Shannon Estenoz@ios.doi.gov>

To: Larry E. Fink <arryfink@waterwiseconsulting.com>

 $\textbf{Cc:} \ "mjmorris@sfwmd.gov" < mjmorris@sfwmd.gov>; \ "Johnson, \ Robert"$

<Robert_Johnson@nps.gov>; "dduke@sfrestore.org" <dduke@sfrestore.org>; "achildress@sfrestore.org" <achildress@sfrestore.org"; barry_rosen@usgs.gov"</p>

<barry_rosen@usgs.gov>; "greg.knecht@dep.state.fl.us" <greg.knecht@dep.state.fl.us>;

"Aumen, Nick" <Nick_Aumen@nps.gov> Sent: Monday, March 26, 2012 11:58 AM

Subject: RE: Increasing Vulnerability of CEPP to Third-Party Challenges on the Mercury Issue

Dear Mr. Fink,

Thank you for your e-mail dated March 15, 2012 regarding the US Army Corps of Engineers Central Everglades Planning Project. You indicate in this e-mail that the SFWMD has not yet answered technical questions that you posed through the SCG sponsored public workshop on February 13-14, 2012. At this time I do not know the status of the SFWMD staff's responses to your questions, however I am copying Matt Morrison at the SFWMD so that he knows you have communicated with me on the subject. I do know that the CEPP staff is extremely busy and that they are working very hard to be responsive to the public while managing the considerable workload and schedules imposed by CEPP.

You also asked how I intend to ensure that mercury and sulfate are given due consideration by scientists and technical staff employed by or under contract to the federal and state government who are working on CEPP. Of course, I represent the Department of the Interior and therefore am better acquainted with DOI's CEPP efforts than I am with those of other state or federal agencies. I rely entirely on the expertise and counsel of the

Department of the Interior's technical staff on scientific and technical matters and try hard not to interfere with the concerns they choose to raise or not to raise while discharging their duties at PDT meetings, public workshops, Task Force sponsored meetings or in the preparation of formal or informal comment letters or documents. This is particularly true on issues about which I personally have little or no expertise, like mercury and sulfate. In keeping with this general approach, I have copied Bob Johnson, DOI's CEPP lead so that he is aware that you have raised this specific issue and so that he can share it with the DOI CEPP team.

Thank you again for contacting me.

Sincerely,

Shannon Estenoz

Shannon Estenoz, Director

Office of Everglades Restoration Initiatives United States Department of the Interior Florida International University 11200 SW 8th Street, OE 165 Miami, FL 33199

Phone: (305) 348-1665 Direct Line: (305) 348-1660 Cell Phone: (786) 350-9401 Fax: (305) 348-1667

shannon estenoz@ios.doi.gov

From: Larry E. Fink [larryfink@waterwiseconsulting.com]

Sent: Thursday, March 15, 2012 3:14 PM

To: Estenoz, Shannon A

Cc: evergladesrestoration@yahoo.com

Subject: Increasing Vulnerability of CEPP to Third-Party Challenges on the Mercury Issue

March 15, 2012

Shannon Estenoz, Director Office of Everglades Restoration Initiatives South Florida Ecosystem Restoration Task Force c/o Florida International University 11200 SW 8th Street, OE 165 Miami, FL 33199

RE: Increasing Vulnerability of CEPP to Third-Party Challenges on the Mercury Issue

Dear Ms. Estenoz:

The U.S. Environmental Protection Area (USEPA) has identified various South Florida water bodies as mercury-impaired, including the Everglades, Biscayne Bay, and Florida Bay: http://iaspub.epa.gov/tmdl waters10/attains watershed.waterslist by causes?p state=FL&p huc =03090202&p cause name=MERCURY%20IN%20FISH%20TISSUE&p cycle=2010 Mercury-impaired portions of the Everglades watershed include an L-67 Canal http://iaspub.epa.gov/tmdl waters10/attains waterbody.control?p list id=FL3289J&p cycle=20 10&p state=FL&p report type=T. segment in Everglades National Park. The rerouting of EAA stormwater runoff and Lake Okeechobee releases containing sulfate concentrations in excess of the CERP performance objective of 1 mg/L

http://www.evergladesplan.org/pm/recover/recover_docs/et/ge-10.pdf out of WCA-3A and into ENP via the L-67 Canal is or may be causing or contributing to that mercury impairment. Conversely, the rainfall-influenced water chemistry of WCA-3A no longer manifests excess methylmercury production and bioaccumulation in the aquatic food chain, so atmospheric deposition alone is not the cause of the Everglades mercury problem. The State of Florida has listed the Everglades as a mercury-impaired water body pursuant to Section 303(d) of the Federal Clean Water Act that (CWA) requires a mercury Total Maximum daily Load (TMDL) pursuant to CWA Section 303(d)(1)C). The Florida Department of Environmental Protection (FDEP) intends to develop and implement the mercury TMDL with a statewide plan by the court-ordered deadline of August, 2012 https://www.dep.state.fl.us/water/tmdl/merctmdl.htm under a 1999

Consent Decree in the matter of Florida Wildlife Federation, et al. v. Carol Browner, et al. (Case. No. 98-356-CIV-Stafford).

In the context of the preceding, at the January 25, 2012, session of the SFERTF-sponsored public workshop on the development of the PIR/EIS for the Central Everglades Planning Project (CEPP), I asked the following set of questions regarding mercury:

"How will the effects of changes in the timing, distribution, quantity, and quality of water on methylmercury production, bioaccumulation, exposure and toxic effects be taken into account explicitly in the PIR/EIS for the preferred option and the various viable alternatives? ... as constraints for project design, operation, maintenance, and repair, especially that which causes or contributes to a drying and rewetting cycle and/or the use of high-sulfate water? ... in the Federal, Florida, and county permitting process for the required reasonable assurances?

Thanks.

Larry E. Fink, M.S. Waterwise Consulting, LLC"

Shannon Estenoz March 15, 2012 Page 2

Due to their complexity, with the concurrence of his U.S. Army Corps of Engineers-Jacksonville counterpart, the South Florida Water Management District's Matt Morrison indicated that SFWMD staff would post their responses to this and the other sets of questions I posed after the workshop. It is now approaching 60 days since those questions were posed and answers were promised with no indication of whether or when those answers will be forthcoming. That is unacceptable, especially in light of the responses of scientist, modelers, and resource, program, and project manager to mercury-related questions I posed since then at public workshops held on February 13-14, 2012, and March 9, 2012.

More disconcerting is your failure to disabuse the agencies and entities of the presumption that CEPP is going to get a pass on mercury as a constraint on the design, operation, or maintenance of Everglades and Florida Bay restoration infrastructure, because the source of the problem is atmospheric deposition originating with global sources uncontrollable under Federal or Florida water pollution control law. This ignores the ability of sulfate to stimulate excess methylmercury production up to a point when present in excess of the CERP/RECOVER sulfate restoration objective of 1 mg/L http://www.evergladesplan.org/pm/recover/recover_docs/et/ge-10.pdf. The excess sulfate derives from Lake Okeechobee releases and EAA stormwater runoff. The excess sulfate in Lake Okeechobee originates with stormwater runoff from farms and ranches in the Kissimmmee River watershed. The sulfate in EAA stormwaster runoff originates primarily from ongoing uses of sulfate cation soil amendments and oxidation of peat soil contaminated with legacy sulfur from its use as a soil amendment, and not seepage of high-sulfate connate water. http://www.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/2011_sfer/v1/chapters/v1 ch3b.pdf

The applicable portions of the Water Resources development Act of 1996 (PL 104-303; 110 STAT. 3770): http://www.fws.gov/habitatconservation/Omnibus/WRDA1996.pdf include the following

Section 528: Everglades and South Florida Ecosystem Restoration

- (b) Restoration Activities
- (4) General Provisions
- (A)Water Quality In carrying out the provisions of this section and sections 315 and 316, the Secretary--
- (i) shall take into account the protection of water quality by considering applicable State water quality standards; and
- (ii) may include in projects such features as are necessary to provide water to restore, preserve, and protect the South Florida ecosystem.
- (B) Compliance With Applicable Law

In carrying out the activities of this subsection and subsection (c), the Secretary shall comply with any applicable federal law, ...

- (c) Integration of Other Activities
- (1) In General—In carrying out the activities described in subsection (b), the Secretary shall integrate such activities with ongoing Federal and State projects and activities, including--
- (D) The Everglades Construction Project of the State of Florida

. .

Shannon Estenoz March 15, 2012 Page 3

So the design, operation, and maintenance of Everglades restoration infrastructure cannot cause or contribute to a violation of any applicable narrative or numerical water quality standard, including those for mercury, and CEPP planning process is constrained by those requirements. Neither the Dynamic Model for Stormwater Treatment Areas Version 2 (DMSTA2) http://wwwalker.net/dmsta/ or its reservoir counterpart nor the Everglades Landscape Model (ELM) include modules to simulate the production and bioaccumulation of methylmercury in response to the excess sulfate present in EAA stormwater runoff and Lake Okeechobee releases. Therefore, any CEPP-related plan, impact statement, engineering design, operation plan, maintenance plan, permit application, water quality-based effluent limit, or compliance monitoring program based on either is inherently deficient as regards water quality constraints. If USEPA Region 4's used DMSTA to develop plans and schedules for attainment of total phosphorus water quality-based effluent limits its Amended Determination, one can infer nothing about the appropriateness of using DMSTA or ELM to address other water quality impacts within or downstream of the reservoirs, including excessive turbidity, dissolved oxygen sags, and methylmercury production and bioaccumulation.

Please advise how you intend to ensure that water quality constraints in general and mercury and sulfate in particular are given due consideration in the CEPP planning process and the technical support being provided by scientists, engineers, and modelers employed by or under contract to the various Federal and State of Florida agencies involved in CEPP. Otherwise, CEPP is increasingly vulnerable to third-party mercury-related challenges at various points of entry into the regulatory process, including the publication of the PIR/EIS and restoration infrastructure permitting.

Thank you for your immediate attention to this concern.

Sincerely,

Larry E. Fink, M.S. Owner and Principal Waterwise Consulting, LLC

Attachment II

March 15, 2012

Walter:

Would that it were true.

DMSTA cannot model any pollutant other than phosphorus, but, as noted by John Arthur Marshall, reservoirs have water quality problems other than nutrients, including those associated with turbidity, dissolved oxygen, and mercury. The P and N cycles influence the manifestations of these other water quality problems and vice versa. Hence the need to use an agency-approved model of the appropriate complexity to accurately simulate these influences and effects, both within the reservoirs and downstream in the STAs and the Everglades flow-way.

The mercury problem in reservoirs is so widespread that is often referred to as the reservoir effect.

http://www.deq.state.va.us/air/vamercury/gen rpt and state/Fink Florida Everglades Hg.pdf The effect appears to be exacerbated when wetlands are inundated to create the reservoir.

http://ecologia.icb.ufmg.br/~rpcoelho/Congressos/DGL2008/Reservoirs%20GHG%20emiissions/Environm%20Sci%20Technol 1997.pdf

Unfortunately, neither WRDA 1996 nor EFA 1994 relieves the South Florida Water Management District of water quality constraints other than nutrients. Nor is mercury an exception to the rule because the problem is caused by atmospheric deposition. To the contrary, where sulfate is below the CERP RECOVER performance objective of 1 mg/L because the water body water chemistry is solely under the influence of rainfall, there is no mercury impairment. Conversely, where high-sulfate waters originating with EAA runoff and Lake Okeechobee releases were rerouted from WCA-3A to ENP via the L-67 Canal, the methylmercry bioaccumulation hot spot in largemouth bass moved in tandem, impairing the ENP waters in the vicinity of the US 41 Culvert. http://iaspub.epa.gov/tmdl_waters10/attains_waterbody.control?p_list_id=FL3289 J&p_cycle=2010&p_state=FL&p_report_type=T

DMSTA was used by William W, Walker, Jr., Ph.D., under contract to USEPA Region 4 to develop and evaluate compliance with total phosphorus water quality-based effluent limits for the STAs per Appendix H of the Amended Determination (attached). DMSTA cannot model any of the other water quality standards as constraints on CEPP infrastructure design, operation, maintenance, impact assessment, permit application, or compliance monitoring, including

turbidity, dissolved oxygen, and mercury. This is also true of ELM as regards mercury.

As an expedient to keep the CEPP planning process moving briskly, it should be possible to adapt the Lake Okeechobee water quality model from the USEPA WASP modeling series for use in a shallow reservoir that will be filled not infrequently with Lake Okeechobee releases. SFWMD's Tom James should be consulted in that regard. WASP now also includes a mercury module. The most recent version of TetraTech's Dynamic Mercury Cycling Model can also be used for mercury modeling in subtropical lakes and reservoirs. SFWMD's Mercury Program Manager, Ben Gu should be consulted in that regard.

I will address the deficiencies of DMSTA with respect to P modeling in a separate communication.

Thanks.

Larry E. Fink, M.S. Waterwise Consulting, LLC

From: "Wilcox, Walter" <wwilcox@sfwmd.gov>

To: 'Larry E. Fink' <arryfink@waterwiseconsulting.com>

Cc: "Estenoz, Shannon" <shannon_estenoz@ios.doi.gov>; "'Murika.Davis@usace.army.mil"

<Murika.Davis@usace.army.mil>; "Daniel.E.Crawford@saj02.usace.army.mil"

<Daniel.E.Crawford@saj02.usace.army.mil> Sent: Monday, March 12, 2012 6:01 PM Subject: RE: Modeling Water Quality Impacts

To the contrary – DMSTA has been specifically developed and applied to deal with some of the unique challenges of south Florida hydrology / water quality and due to its ability to handle the subtleties of the most critical element of STA design in the EAA (Phosphorus) is ideally suited to answer the questions of CEPP in an expedited schedule. We have frequently found that so called "off the shelf" models, while nationally approved (and very good at what they do), have some limitations when applied to the extremely flat topography and low nutrient south Florida system and frequently require significant effort to create reasonable outputs. A similar line of thinking is evident in the recent application of DMSTA by USEPA in developing the Amended Determination rather than using one of their "approved" tools.

Walter M. Wilcox

Hydrologic and Environmental Systems Modeling South Florida Water Management District

Work: (561) 682-2527 Cell: (561) 718-4039

From: Larry E. Fink [mailto:larryfink@waterwiseconsulting.com]

Sent: Monday, March 12, 2012 5:41 PM

To: Wilcox, Walter

Cc: Estenoz, Shannon; 'Murika.Davis@usace.army.mil'; 'Daniel.E.Crawford@saj02.usace.army.mil'

Subject: Modeling Water Quality Impacts

March 12, 2012

Walter:

This is a follow up question to one posed by John Arthur Marshall of the Arthur R. Marshall Foundation at the SFERTF-sponsored public workshop on restoration alternatives. His question regarded the impact of deep reservoirs on downstream water quality. In response you noted that DMSTA had been applied to STA design and was being applied by CEPP for the assessment of combined reservoir-STA water quality impacts. This prompts the question: How does the District decide whether to make or buy a water quantity or quality model? When the District makes a new model, is it's substantial equivalence demonstrated to an agency-approved model with recognized scientific, regulatory, and judicial pedigree?

So, for example, there are many USEPA-, USGS-, and USACE-approved water quantity and quality models available in the public domain that model reservoir hydrodynamics and water quality, including phosphorus (P), dissolved oxygen, mercury, and sedimentation, but the District decided instead to pay a contractor to adapt the DMSTA model to reservoirs, despite DMSTA being limited to the modeling of P removal by abiotic and biotic particle sedimentation and dissolved P sediment sequestration. http://www.docstoc.com/docs/81113869/Design-Models-for-Treatment-Wetland-Systems-at-Low-Phosphorus-

One might naively conclude that an inferior version of the wheel was being reinvented in this example, with unnecessary delay and expense, neither of which CEPP cannot afford.

Thanks.

Larry E. Fink, M.S. Waterwise Consulting, LLC

From: "Wilcox, Walter" <wwilcox@sfwmd.gov>

To: 'Larry E. Fink' slarryfink@waterwiseconsulting.com

Cc: "Estenoz, Shannon" <shannon_estenoz@ios.doi.gov>; "'Murika.Davis@usace.army.mil"

<Murika.Davis@usace.army.mil>; "'Daniel.E.Crawford@saj02.usace.army.mil"

<Daniel.E.Crawford@saj02.usace.army.mil>

Sent: Monday, March 12, 2012 1:37 PM

Subject: RE: Implications of the Sensitivity of Restoration Decision-Making to Canal Groundwater Capture Efficiency Assumptions

Larry,

Thanks for the feedback. At this time for CEPP, we are not envisioning any further model refinements due to the pace of the effort. We have done a comprehensive review of the project intent and associated model capabilities (this is what led to the L31N update that I presented at the 3/9 PDT) and at least I personally feel that we are in good shape. As I have previously mentioned, robust quantifications of model uncertainty are not yet readily available, although efforts on development of this set of tools continue within HESM as resources are available.

Related to the idea to utilize ionic strength as a means of determining groundwater/surface water interaction, I think that has some merit and you are hitting close to my personal areas of interest. I actually performed a stable isotope study in the vicinity of L31N as part of my Master's work at University of Miami. Since standing water is more subject to evaporative processes which tend to enrich water with higher ratios of deuterium, tritium and oxygen-18, Everglades water that has been subject to these processes is readily distinguishable from the local rapid infiltration water observed in the eastern developed areas. As such, it is possible to trace the flow of water and relative contributions of various sources to canal flow, wellfield intakes, etc...

This type of validation with field experimentation is known in my field as "model benchmarking". While we always strive to get data from all available sources, in some cases controlled experimentation is needed to truly understand the physics of the processes that we are trying to model. To that end, we have actually be able to acquire some monitoring equipment this fiscal year specifically for this purpose. They are portable water level data loggers that we can take around the south Florida system and coordinate with operations to create specific hydraulic conditions that tell us extensive information about the physical parameters of the surrounding area. The great thing is that since these loggers are portable and do not require remote telemetry, we can perform this work at minimal cost to the taxpayers and simultaneously target specific areas to help increase the certainty of our predictions. Lots of thing to keep on the radar, but we keep making forward progress...

I will forward your e-mail to some of the hydraulic experts on my team so that they can begin to ponder how this idea may fit into future model refinement beyond CEPP. Thanks again for your continued engagement.

Walter M. Wilcox Hydrologic and Environmental Systems Modeling South Florida Water Management District

Work: (561) 682-2527 Cell: (561) 718-4039

From: Larry E. Fink [mailto:larryfink@waterwiseconsulting.com]

Sent: Monday, March 12, 2012 1:01 PM

To: Wilcox, Walter

Cc: Estenoz, Shannon; 'Murika.Davis@usace.army.mil'; 'Daniel.E.Crawford@saj02.usace.army.mil' Subject: Implications of the Sensitivity of Restoration Decision-Making to Canal Groundwater Capture

Efficiency Assumptions

March 12, 2012

Walter:

I enjoyed your modeling presentations at the public meeting on design alternatives for Everglades and Florida Bay restoration sponsored by the South Florida Ecosystem Restoration Task Force on Friday, March 9, 2012. I greatly appreciate the clarity and candor with which you are able and willing to communicate what the models are designed to do, what the models assume, how the models work, what the models tell us, and where the modeling results get soft.

I was especially interested in your finding that the design and operation of Everglades and Florida Bay restoration infrastructure is sensitive to the uncertainty in the percentage of groundwater captured by the canals that interdict the surficial aquifer. Regarding the Miami Canal segment, the original assumption was that it captured 90%, but subsequent studies determined that it was closer to 70%, so there was less water gained while that segment was in operation and less water lost when it is backfilled and taken out of operation. It is also not clear whether this correction should apply to other segments of the canal system or whether it is limited only to the segment studied. Please correct any misunderstandings of your findings or their implications in this regard.

This finding underscores the importance of identifying the uncertainties in the modeling assumptions, approximations, interpolations, and extrapolations to which restoration decision-making is most sensitive and using those findings to guide adaptive monitoring, special studies, and research to reduce the compounded uncertainty to an acceptable level within the decision-making timeframe. It also underscores why we need greater margins of safety in the capacities and flexibilities of design, operation, and maintenance of restoration infrastructure when the decision-making process is accelerated and the period of adaptive feedback between modeling and measurement is greatly foreshortened.

With that in mind, it would appear necessary to measure the rate of influx of groundwater into the canal system as a function of water table depth and canal stage. It occurs to me that this could be effected most efficiently by taking advantage of the difference in the ionic strength of groundwater and surface water to infer the seepage rate by the magnetic field generated by that ionic flux. The method with which I am familiar obtained the measurements by recording the induced current in a conductive cable dragged along the lake shoreline. It also occurs to me that the cost of obtaining these data could be greatly reduced by taking advantage of automated monitoring systems based on RoboBoat, the patent for which is held by the District. The chief developer of RoboBoat, Anier Sosa, may be available to assist in its adaptation to groundwater ion flux monitoring in the District's canal system. This approach could/should be supplemented with surficial groundwater monitoring using ground-penetrating radar. To calibrate and validate these alternative methods, both would be used in representative segments in combination with more traditional methods, e.g., seepage meters, including the design innovated by the

District's Steve Krupa, all within a water budget mass balance framework. http://www.hydrol-earth-syst-sci.net/10/873/2006/hess-10-873-2006.pdf

Good luck and keep up the great work.

Sincerely,

Larry E. Fink, M.S. Owner and Principal Waterwise Consulting, LLC

We value your opinion. Please take a few minutes to share your comments on the service you received from the District by clicking on this <u>link</u>.

We value your opinion. Please take a few minutes to share your comments on the service you received from the District by clicking on this <u>link</u>.

August 27, 2012

Jan Mandrup-Poulsen, Administrator Watershed Evaluation Section Florida Department of Environmental Protection 3900 Commonwealth Blvd., M.S. 10 Tallahassee, FL 32399

RE: Public Comment on the Revised Draft Mercury TMDL for the State of Florida Report to USEPA Region 4, published on July 6, 2012. http://www.dep.statc.fl.us/water/tmdl/merctmdl.htm

Dear Mr. Mandrup-Poulsen:

This is set of formal public comments from Waterwise Consulting, LLC, on the Revised Draft Mercury Total Maximum Daily Load for the State of Florida Report to USEPA Region 4: http://www.dep.state.fl.us/water/tmdl/merctmdl.htm, which was published on July 6, 2012, and the scientific, administrative, and legal deficiencies in the statewide approach to the restoration and protection of mercury-impaired Florida waters that was adopted by the State of Florida for the purpose of developing and implementing a mercury Total Maximum Daily Load (TMDL) pursuant to Clean Water Act (CWA) Section 303(d)(1)(C) and the point source Waste Load Allocation (WLA) and Water Quality-Based Effluent Limitations (WQBELs) deriving therefrom to restore and protect mercury-impaired Florida waters. As a consequence of these serious deficiencies, the U.S. Environmental Protection Agency (USEPA) Region 4 cannot approve this statewide mercury TMDL, WLA, or WQBELs, and USEPA Region 4 as is and will have abused its discretion by doing so.

Please acknowledge the timely submittal of these formal public comment regarding the need to correct these serious deficiencies and make the required substantial revisions to this Revised Draft Report and any subsequent formal administrative actions deriving therefrom. I reserve the right to amend and extend my formal public comments on this administrative action in response to information obtained via one or more of the outstanding formal public records requests that have not yet been fulfilled in a reasonable period of time. Hereinafter the Revised Draft Mercury Total Maximum Daily Load for the State of Florida is also referred to as the Revised Draft Hg TMDL Report, the Hg TMDL Report, or the Report.

Exhibit A incorporates by link the Federal Clean Water Act and contains the excerpt of its TMDL provision, Section 303(d)(1)(C). Exhibit B incorporates the internet links to the regulations and technical guidance promulgated and published to implement CWA Section 303(d)(1)(C) and the related Glossary of Terms. Exhibit C incorporates the link to the USEPA WQC Document for Methylmercury to Protect Human Health that USEPA published in January 2001. Exhibit D contains the link to guidance for implementing the revised mercury WQC for methylmercury in fish flesh. Exhibit E is the link to reference and technical guidance for the use of USEPA-approved analytical methods in general and USEPA Methods 1630 and 1631 for ultra-trace MeHg and THg analysis, respectively, in water, sediment, and fish. Exhibit F is the link to the Revised Draft Report that is the subject of this formal public comment, Exhibit G are the References contained therein, and Exhibit H is the link to Appendix H to the Revised Draft Report containing the water, sediment, and sport fish data collected by or for FDEP in the one-tine, statewide mercury monitoring campaign in the period 2008-2010. Exhibit I is the link to Florida's impaired waters statute and rules and relevant excerpts from the rule.

This is also a formal request that FDEP demonstrate that the State of Florida's statewide mercury development and implementation approach, assumptions, approximations, extrapolations, interpolations, methods, procedures, quality assurance and control criteria and failure rates, record-making, record-

keeping, auditing, peer review, and recusal comport with all applicable Federal and State statutes, regulations, rules, technical guidance, required accreditations and certifications, accepted professional standards of technical and ethical practice, and common sense regarding the development and implementation of an enforceable TMDL for an impaired waterbody in general and mercury-impaired waterbodies in particular, including but not limited to the use of USEPA-approved or recommended analytical methods in monitoring, water quality modeling, TMDL calculation, and/or the waste load allocations and water quality-based effluent limitations deriving therefrom.

Executive Summary

(1) The Contamination of the Human Food Supply with Toxic Amounts of Toxic Methylmercury Constitutes an Imminent and Growing Threat to the Public Health, Safety and Welfare and a Violation of the State of Florida's Narrative "No Toxic Substances in Toxic Amounts" Water Quality Standard for the Protection of Human Uses of Fishable and Swimmable Waters

The contamination of the human food supply with toxic amounts of toxic methylmercury constitutes an imminent and growing threat to the public health, safety and welfare and a violation of the State of Florida's Narrative "No Toxic Substances in Toxic Amounts" Water Quality Standard (WQS) for the protection of human uses of fishable and swimmable waters. There is an unacceptable risks of cognitive impairment to the developing fetus in the third trimester from the exposure of pregnant women to toxic methylmercury in toxic amounts when fish are consumed by pregnant women at Florida average rates, let alone subsistence rates, from most Florida lagoons, estuaries, and bays and many of Florida's lakes and rivers. According to FDEP's calculations, the median backregound methylmercury dose rate from the consumption of salt water fish and shellfish species for Florida women of child-bearing age exceeds USEPA's methylmercury reference dose for the protection of the developing fetus of 0.0001 mg/Kg-day. If the Florida mercury WOS were calculated in the same way as the USEPA WOC, the allowable concentration in freshwater fish is < 0. In fact the background concentrations in salt water fish and shellfish species in Florida would have to be reduced by 24.3% just so that the median exposure to methylmercury in Florida women of childbearing age equals USEPA's reference dose. Based on the results contained in Appendix H of the Hg TMDL Report, the flesh of largemouth bass collected from 72 (29%) of the 249 of the lakes and streams sampled out of the thousands that are mercury-impaired averaged twice the water quality target of 0.3 ppm total mercury as methylmercury in fish flesh on a weteight basis and 26 (10%) of 249 averaged three times that target. Many coastal waters average four and five times the mercury water quality target for prized, large-bodied, long-lived, top-predator sport fish species.

(2) There Is No Margin of Safety for Florida Women of Child-Bearing Age, the Developing Fetus, or the Nursing Infant

Because the half-life of methylmercury in a woman's blood stream is about 50 days, a pregnant woman and her fetus approach steady state with the average concentration of methylmercury in her diet by the beginning of her third trimester, so consuming the flesh from a typical largemouh bass from roughly one-third of the lakes and streams during her pregnancy at the state average rate of 21 grams per day (about an ounce and a quarter) doubles the risk of impairing the brain function of her developing fetus and in 10% of the lakes and streams that risk is tripled. It then takes roughly five half-lives to clear the excessively high methylmercury levels from her system once she stops eating that fish. Sadly, the clearance rate from a woman's body is measurably faster for nursing women, because they are dumping methylmercury into their breast milk, continuing the exposure of the nursing infant to methylmercury that began in the womb. Thereafter, it doesn't matter whether this woman of child-bearing age ever consumes another fish, because the neurological damage has already been done. That being the case, FDEP's conceptual model of exposure of women of child-bearing age and their fetuses to methylmercury is flawed, because it

assumes that the exposures from the eonsumption of fish with high and low methylmercury concentrations average out over a woman's child-bearing years, thus justifying the use of average values rather than the actual concentration probability distribution function for each salt water fish and shellfish species consumed by Florida women of childbearing age in the probabilistic analysis used to calculate the median background methylmercury dose rate and the margin of safety in the water quality target. This may be true of a hypothetical statistic, but nor for real women playing toxic roulette with their unborn child. The risks of cognitive deficit in the developing fetus are magnified for women of child-bearing age who subsist on fish from a local canal, pond, lake, stream, estuary, or bay, because they consume fish at rates typically 5 times the Florida average rate. For them, there is no margin of safety in the 0.3 ppm water quality target. Whether this inequity constitutes a form of discrimination that violates the environmental justice provisions of applicable Federal law or Presidential Executive Order will be left to the judgment of the Federal courts.

(3) Informational and Educational Efforts are Necessary But Not Sufficient to Protect the Public Health, Safety, and Welfare

Informational and educational efforts by the Florida Department of Public Health, the Florida Department of Environmental Protection, and the Florida Fish and Wildlife Conservation Commission to limit exposure to methylmercury in toxic amounts by asking the public to self-limit the consumption of excessively contaminated fresh and salt water sport and commercial fish and shellfish originating from Florida waters have been less than fully effective in preventing human methylmercury toxicosis. This is evidenced by the number of cases of physician-reported neurotoxic effects in patients observed in the period 2001-2010. This is documented in the revised draft Hg TMDL Report. The decision by the DOH Secretary, in his capacity as Florida's Chief Medical Officer, to tighten the reporting criteria will reset the reporting baseline, but the number of cases meeting those tighter criteria will continue to rise as more and more people are driven to subsist on fresh and canned sport and commercial fish from Florida's fresh and salt waters. Whether this decision was made in good faith in the best interests of the public health, safety, and welfare or to undermine the epidemiological necessity for mercury regulatory action at this time will be left to judgment of the Florida courts.

(4) Threatened and Endangered Species are Not Adequately Protected by USEPA's Water Quality Criterion to Protect Human Health

Threatened and endangered fish-eating wildlife and their predators cannot read or heed the real or virtual warnings and avoid exposure to toxic amounts of methylmercury in their contaminated forage, so there has been, is, and will be an unacceptable risk of compromised reproductive success from which threatened and endangered species are explicitly protected under the Federal Endangered Species Act and for which there are potentially serious legal consequences, even if there are none for endangering humans. Those unacceptable risks are also documented in Section 2.4 and Appendix E of Hg TMDL Report, as well as data, reports, and publications in the possession of FDEP or to which it has ready access in the scientific, regulatory, or consultant literature. However, FDEP failed to calculate wildlife protection WQC following USEPA technical guidance but using the fish data collected in the one-time, statewide mercury monitoring campaign. When that is done, the unenforceable 0.3 ppm THg as methylmercury in a representative top-predator sport fish species, the largemouth bass, cannot be demonstarted to be adequately protective of representative fish-eating mammals, such as the otter and mink, or fish-eating avians, such as the eagle and osprey.

(5) FDEP has Failed to Timely Promulgate a Revised Class III Numerical Mcrcury WQS Adequately Protective of Human Health and Fish and Shellfish-Eating Wildlife and Their Predators

FDEP has been on public record that the existing duly promulgated numerical Class III WQS for mercury of 12 ng/L total mercury (THg) was not adequately of protective of the public health since the agency assumed responsibility for authoring or co-authoring the mercury chapter of the annual report to the Governor, the Legislature, and the Secretary of the Department of Environmental Protection on the status and trends of Everglades restoration, recovery, and permit compliance, now known as the South Florida Environmental Report (SFER). FDEP has known that Florida's existing mercury WQS was not adequately protective of human health since January 2001, when the USEPA WQC document was published. In the last triennial review cycle, FDEP proposed a revised mercury WQS of 0.2 ppm THg as methylmercury in fish flesh on a wet-weight basis to protect human health to reflect the higher average fish consumption rate and background methylmercury dose rate than the national averages used by USEPA to derive the 0.3 ppm value. That effort was subsequently abandoned without adequate notice or justification.

(6) Florida State Agencies Were Arbitrary, Capricious, and Abused Their Discretion in Assigning a Low Priority to the Development of Enforceable TMDLs for Mercury-Impaired Fresh and Salt Waterbodies in Florida for a Toxic Substance Present in Toxic Amounts in the Human Food Supply

FDEP's only formal administrative action to date regarding mercury was for the Environmental Regulation Commission to adopt at FDEP's request a revised impaired waters rule in December 2006 to designate mercury-impaired waters as a low priority because of the current lack of understanding of the mercury cycle in the environment. The Legislature's only contribution in this regard was to exempt the listings, priorities, and schedules for TMDL development and implementation from public challenge as a matter of Florida law.

(7) FDEP Has Not Proposed to Promulgate a Revised Mercury WQS in this Triennial Review Cycle or Committed to a Plan and Schedule for Same in 2012

On April 27, 2012, Florida Department of Environmental Protection (FDEP) public noticed its intent to conduct a limited Clean Water Act-mandated triennial review of its duly promulgated Water Quality Standards to protect the various uses of its fresh and salt waters. This limited review did not include mercury. https://www.flrules.org/gateway/ruleno.asp?id=62-302.530 This occurred about the same time that FDEP was preparing to release for public comment a Draft Statewide Mcrcury Total Maximum Daily Load (TMDL) Report to USEPA Region 4 on the extent, significance, status and trends, and proposed mercury load reduction strategy to restore mercury-impaired state waters, which, among other things, found that fishable uses were impaired even in waters where the existing THg WOS was nowhere being violated based on the one-time statewide mercury monitoring eampaign of lakes and streams but not wetlands or salt waters. This decision was made despite being under a Federal Court Consent Decree to develop and implement enforceable TMDLs for all impaired waters listed pursuant to CWA Section 303(d) by September 30, 2012, including mercury-impaired waters. Instead of revising the deficient existing Class III numerical mercury WQS, Florida is proposing to adopt general technical guidelines for the derivation of WQS for the protection of human health using the same probabilistic approach adopted http://www.dep.state.fl.us/water/wqssp/does/tr_review/human_health_073112.pdf; http://www.dep.state.fl.us/water/wqssp/does/tr_review/hhc_tsd_071112.pdf_in_the_Hg_TMDL_Report. The failure of FDEP to petition the ERC to revise the numerical Class III mercury WQS during this triennial review cycle will be the subject of inquiry before the Federal court.

(8) FDEP's Proposed Statewide Mercury Total Maximum Daily Load (TMDL) and the Waste Load Allocations (WLAs) and Water Quality-Based Effluent Limitations Deriving Therefrom are Scientifically, Administratively, and Legally Deficient.

There are serious scientific, administrative, and legal deficiencies in the design, methods, implementation, and interpretation of the results of the one-time, statewide mercury monitoring campaign, the calculation of the water quality target, the calculation of the load allocation, the consideration of the seasonal variation and the margin of safety in the calculation of the proposed load reduction required to attain and maintain the unenforceable water quality target in the absence of a duly-promulgated, enforceable revised Class III numerical Water Quality Standard for mercury, and the fair and equitable distribution of the mercury assimilative capacities between states, fresh and salt waters, point and nonpoint sources, and amongst point sources. The statewide approach to mercury TMDL development and implementation also, in effect, adopts a policy whereby not all mercury-impaired waters need be restored to unimpaired status. CWA Section 303(d)(1)(C) requires a waterbody-specific approach to TMDL development, and it makes no allowance for a statistical approach where 1%, 5%, or 10% of the state's mercury-impaired waters can be sacrificed as an administrative expedient. I refer to this as the "No Waterbody Left Behind" letter and spirit of CWA Section 303(d)(1)(C). Nor does the statewide approach even commit to followup monitoring of the sacrificed waters to evaluate their responses to the mercury load reduction intended to restore most but not all of Florida's mercury-impaired waters. To the contrary, state law requires that all mercury-impaired waters be delisted as soon as the statewide mercury TMDL is published. These are fatal flaws in the development and implementation of the statewide approach to the Florida mercury TMDL that must be corrected prior to submittal of the Revised Draft Hg TMDL Report to USEPA Region 4 for review and comment. If these fatal flaws are not corrected prior to submittal, USEPA Region 4 cannot approve this statewide mercury TMDL, and USEPA Region 4 will have abused its discretion by doing so.

(9) The Implicit Combined Margin of Safety Claimed by FDEP for Its Proposed Approach to Statewide Mercury TMDL Development and Implementation is Not Adequate to Compensate for the Propagated Errors and Compounded Uncertainties in the Proposed Statewide Mercury TMDL, WLAs, and WQBELs Deriving Therefrom

FDEP has adopted an implicit margin of safety to compensate for any lack of knowledge about the relationship between the mercury loading rate and the methylmercury bioaccumulating in the reference freshwater sport fish species, the largemouth bass. However, the implicit margin of safety is in the assumptions used to derive and apply the water quality target, not the load-concentration relationship. This is the same approach recommended by Florida's Allocation Technical Advisory Committee. This approach is contrary to relevant technical guidelines for implementing Section 303(d)(1)(C). USEPA Region 4 erred in the past by approving TMDLs based on this approach to the implicit margin of safety. This fatal administrative deficiency withstanding, the implicit margin of safety in the derivation of the unenforceable water quality target and the state's approach to its implementation is not adequate to compensate for the uncertainties in the mercury load-concentration relationship to protect the average Florida consumer of sport fish, let alone a subsistence consumer protected by the Environmental Justice provisions of applicable Federal statutes, regulations, and Presidential Executive Orders. This deficiency is further magnified by the adoption of a statewide approach to mercury TMDL development and implementation because of the greater variation in the reference sport fish THg concentrations between waterbodies sampled in the same season than within the same waterbodies sampled in different seasons. As a consequence of the inadequacy of the implicit margin of safety in the statewide mercury TMDL, there is an unacceptable probability of concluding that the fishable uses of a mercury-impaired waterbody will have been restored by the proposed 90% reduction in controllable point and nonpouint sources of mercury when it has not at the 95th percentile confidence level.

(10) As a Consequence of (9), There is an Unacceptable Likelihood of FDEP Concluding that It Has Reasonable Assurance that the Mercury-Impaired Waterbodies Will Recover and Attain Mercury-Unimpaired Status when They Will Not

Due to the seasonal variation that was ignored in the design of the one-time, statewide mercury monitoring campaign and the analysis, integration, and synthesis of its results, there is a statistically significant probability that a resource manager will incorrectly conclude from the results of the study that a waterbody is not mercury-impaired when it is or that it has recovered from that mercury impairment as consequence of the proposed mercury atmospheric load reduction when it has not. The use of age, size-, or weight-standardized transformations of the fish data is unlikely to reduce the rate of committing such a critical error in judgment to acceptable levels. The unacceptable probability of committing such resource management decision-making errors is a consequence of the flawed study design that followed from the faulty assumption that seasonal variation could be ignored as an administrative expedient. The validity of that assumption is contradicted by the study results for a subset of lakes that were resampled in a different season. This negates the value of the study results and the mercury resource management and point source regulation decisions deriving therefrom. The margin of safety in the compounded assumptions adopted by FDEP to develop and implement the statewide mercury TMDL approach is inadequate to compensate for the tendency of resource managers to draw incorrect conclusions of such critical consequence from the study results.

(11) As a Consequence of (10), There Is an Unacceptable Likelihood that FDEP Will Prematurely and Incorrectly Delist Mercury-Impaired Waters Merely Because FDEP Has Published a Statewide Mercury TMDL

CWA Section 303(d)(1)(C) requires a waterbody-specific approach to TMDL development and implementation to ensure that the waterbody attains its duly promulgated WQS. No mercury-impaired waterbody shall be left behind in the process of developing or implementing a statewide mercury TMDL as an administrative expedient. And no mercury-impaired waterbody shall be delisted until all of its statewide and watershed-specific mercury source controls and best management practices have been implemented, the waterbody has had sufficient time to respond to the mercury load reduction, and follow-up monitoring demonstrates the long-term attainment and maintenance of mercury-unimpaired status. If state law requires otherwise, then the state law must be changed to comport with Federal law.

(12) USEPA Region 4 Will Have Abused Its Discretion If It Approves The State of Florida's Scientifically, Administratively, and Legally Deficient Statewide Mercury TMDL and the WLAs and WQBELs Deriving Therefrom

Florida's statewide approach to mercury TMDL development is contrary to CWA Section 303(d)(1)C) and the regulations and technical guidelines promulgated and published to implement that provision. It is based on restoring mercury-impaired waters to an unenforceable water quality target rather than a duly promulgated, revised Class III numerical mercury WQS. The unenforceable target is demonstrably inadequately protective of the median Florida woman of child-bearing age consuming salt water fish and shellfish species with median concentrations of total mercury as methylmercury, including fish and shellfish originating from Florida waters, at median consumption rates, let alone a subsistence consumer protected by treaty or the environmental justice provisions of applicable Federal law or Presidential Executive Order. The approach adopted by the state assumes without proof that restoring its lakes and streams will restore its wetlands, when some wetlands can be demonstrated to be more mercury-susceptible than lakes and streams, as evidenced by the Everglades. It also assumes that restoring Florida's fresh waters will restore its salt waters, when many lagoons, estuaries, and bays have higher methylmercury concentrations in their flesh than the fresh waters flowing into them under the same

mercury atmospheric deposition loads, as evidenced by the Lake Okeechobee-Everglades-Florida Bay system.

Florida then calculates the required mercury load reduction to restore the unimpaired status of all fresh waters up to the 90th percentile level of methylmercury contamination. In effect this sacrifices 10% of Florida's most mercury-susceptible, mercury-impaired waters as an administrative expedient. Section 303(d)(1)(C) makes no such provisions. No waterbody shall be left behind using the statewide approach to mercury TMDL development and implementation. In particular, because the results of the one-time, statewide mercury monitoring of a subset of lakes and streams demonstrates that streams are more mercury-susceptible than lakes, so roughly 15% of the streams are being sacrificed using this approach. The margin of safety with seasonal variation is insufficient to ensure that even these statistical targets will be hit. Nevertheless, when a corrected 90th percentile Florida stream LMB THg as MeHg concentration is adopted, the required load reduction from all air emissions sources is 99%, not 86%.

The incorrectly calculated mercury TMDL was then not fairly and equitably distributed between states for inter-state fresh and salt waterbodies and then between and among controllable in-state point and nonpoint sources. The WQBELs were not correctly calculated for mercury over-allocated Florida waters where the TMDL - LA - M.O.S. < 0. The mercury over-allocated waters require zero discharge of mercury. For point sources regulated under CWA Section 402, this translates into no detectable discharge of THg at the method detection limit of the duly promulgated, USEPA-approved method for ultra-trace mercury analysis, Method 1631, not the enforceable but deficient existing mercury WQS of 12 ng/L, the unenforceable water quality target of 1.25 ng/L, or any variation on that theme.

As a consequence of these errors of omission and commission, Florida's statewide mercury TMDL is so seriously scientifically, administratively, and legally deficient that it must be considered fatally flawed, and USEPA Region 4 will have abused its discretion by approving it. Instead, Florida's Hg TMDL Report must be substantially revised to correct these errors to comport with letter and spirit of CWA Section 303(d)(1)(C) and the regulations and technical guidelines promulgated and published by USEPA to implement that provision.

Introduction

The contamination of the human food supply with toxic amounts of toxic methylmercury constitutes an imminent and growing threat to the public health, safety and welfare and a violation of the State of Florida's narrative "no toxic substances in toxic amounts" Water Quality Standard for the protection of human uses of fishable and swimmable waters. There is an unacceptable risks of cognitive impairment to the developing fetus in the third trimester from the exposure of pregnant women to toxic methylmercury in toxic amounts when fish are consumed at Florida average rates, let alone subsistence rates, from most Florida lagoons, estuaries, and bays and many of Florida's lakes and rivers. According to FDEP's calculations, the median backroound methylmereury dose rate from the consumption of salt water fish and shellfish species for Florida women of child-bearing age exceeds USEPA's methylmercury reference dose for the protection of the developing fetus of 0.0001 mg/Kg-day. If the Florida mercury WQS were calculated in the same way as the USEPA WQC, the allowable concentration in freshwater fish is < 0. In fact, the background concentrations in salt water fish and shellfish species in Florida would have to be reduced by 24.3% just so that the median exposure to methylmercury in Florida women of childbearing age equals USEPA's reference dose. Based on the results contained in Appendix H of the Hg TMDL Report, the flesh of largemouth bass collected from 72 (29%) of the 249 of the lakes and streams sampled out of the thousands that are mercury-impaired averaged twice the water quality target of 0.3 ppm total mercury as methylmercury in fish flesh on a wet-eight basis and 26 (10%) of 249 averaged three times that target. Many coastal waters average four and five times the mercury water quality target for prized, large-bodied, long-lived, top-predator sport fish species.

Because the half-life of methylmercury in a woman's blood stream is about 50 days, a pregnant woman and her fetus come to a steady state with the average concentration of methylmercury in her diet by the beginning of her third trimester, so consuming the flesh from a typical largemouh bass from roughly onethird of the lakes and streams during her pregnancy at the state average rate of 22 grams per day (about an ounce and a quarter) doubles the risk of impairing the brain function of her developing fetus and in 10% of the lakes and streams that risk is tripled. It then takes roughly five half-lives to clear the excessively high methylmercury levels from her system once she stops eating that fish. Sadly, the clearance rate from a woman's body is measurably faster for nursing women, because they are dumping methylmercury into their breast milk, continuing the exposure of the nursing infant to methylmercury that began in the womb. Thereafter, it doesn't matter whether this woman of child-bearing age ever consumes another fish. because the neurological damage has already been done That being the case, FDEP's conceptual model of exposure of women of child-bearing age and their fetuses to methylmercury is flawed, because it assumes that the exposures from the consumption of fish with high and low methylmercury concentrations average out over a woman's child-bearing years, thus justifying the use of average values rather than the actual concentration probability distribution function for each salt water fish and shellfish species consumed by Florida women of childbearing age in the probabilistic analysis used to calculate the median background methylmercury dose rate and the margin of safety in the water quality target. This may be true of a hypothetical statistic, but nor for real women playing toxic roulette with their unborn child. The risks of cognitive deficit in the developing fetus are magnified for women of child-bearing age who subsist on fish from a local canal, pond, lake, stream, estuary, or bay, because they consume fish at rates typically 5 times the Florida average rate. For them, there is no margin of safety in the 0.3 ppm water quality target. Whether this inequity constitutes a form of discrimination that violates the environmental justice provisions of applicable Federal law or Presidential Executive Order will be left to the judgment of the Federal courts.

Efforts by the Florida Department of Public Health (FDOH), the Florida Department of Environmental Protection (FDEP), and the Florida Fish and Wildlife Conservation Commission (FFWCC) to inform and educate the public in general and women of child-bearing age in particular to reduce their risk of exposure to toxic methylmercury in toxic amounts by avoiding or limiting the consumption of fresh and salt water sport and commercial fish and shellfish have been less than fully effective in preventing human methylmercury toxicosis, as evidenced by the number physician-reported cases of methylmercury neurotoxic effects in the period 2001-2010. The policy switch from posting signs in the field to distributing brochures with fishing licenses and posting warnings on the DOH, DEP, and FFWCC Internet websites has diminished the effectiveness of this information and education campaign with the most exposed subpopulation of subsistence-level fishers. When surveyed and asked whether they were concerned about the mercury contamination of the fish they were catching and consuming, most subsistence fishers said they assumed if there were no signs, the fish were safe to eat. All of this is documented in the Revised Draft Mercury TMDL for the State of Florida Report to USEPA Region 4 (hereinafter the Hg TMDL Report).

In any case, threatened and endangered fish-eating wildlife and their predators cannot read or heed the real or virtual warnings and avoid exposure to toxic amounts of methylmercury in their contaminated forage, so there has been, is, and will be an unacceptable risk of compromised reproductive success from which threatened and endangered species are explicitly protected under the Federal Endangered Species Act and for which there are potentially serious legal consequences, even if there are none for endangering humans. Those unacceptable risks are also documented in Section 2.4and Appendix E of Hg TMDL Report, as well as data, reports, and publications in the possession of FDEP or to which it has ready access in the scientific, regulatory, or professional literature. The 0.3 ppm THg as methylmercury value is not adequately protective of all fish-eating wildlife-species, including threatened or endangered species such as the wood stork, the bald eagle, or the Everglades mink, or predators of fish-eating wildlife,

including the highly endangered Florida panther. Following the procedures used by USEPA in its Mercury Report to Congress (1997) but substituting Florida-specific Trophic Level 3 and 4 data in the statewide mercury monitoring campaign, the corresponding mammalian no adverse effect level (NOAEL) in fish is 0.17 ppm vs. 0.3 pppm to protect human health. If the mallard duck LOAEL is divided by 3 to approximate the NOAEL, as was done by Darren Rumbold, Ph.D., in SFWMD's STA-2 Methylmercury Anomaly Ecotoxicological Risk Assessment approved by FDEP in 2004, the bird WQC now controls at 0.08 ppm THg as methylmercury. http://www.tandfonline.com/doi/abs/10.1080/10807030590925768 A screening-level ecotoxicological risk assessment of the Florida panther indicates that a panther foraging at typical rates on Everglades-like juvenile alligator, otter, and raccoon, will be at an elevated risk of reproductive failure, and if a pregnant female shifts progressively to such prey species as her pregnancy progresses, the elevated risks may approach or exceed unacceptable levels, while the avian NOAEL-based WQC is likely to be protective of the reproductive success of the typical Florida panther female and will reduce the likelihood of reproductive failure of the atypical female.

The recent decision by the DOH Secretary, acting in his capacity as Chief Medical Officer for the State of Florida, to tighten the criteria for physician reporting of methylmercury neurotoxic effects will reset the reporting baseline, but the reporting incidence will still be on the rise relative to that new baseline, because more and more people are living near or below the poverty line as a consequence of the Great Recession and more and more people are being driven to subsistence consumption of fresh and canned salt and fresh water fish and shellfish contaminated with toxic methylmercury in toxic amounts when consumed at Florida average, let alone subsistence rates. Whether this decision was made in good faith in the best interests of the public health, safety, and welfare or an arbitrary and capricious abuse of discretion to undermine the epidemiological necessity for mercury regulatory action at this time will be left to the judgment of the Florida courts. The nutritional desperation of those near or in poverty is exacerbated by the foreshortening of the period during which the formerly employed can collect unemployment compensation and the tightening of criteria for state assistance with the costs of shelter, food, and medicine. Perhaps all people on welfare should be tested for the methylmercury residues in their hair in addition to the illegal recreational drug residues in their urine.

When then Secretary of the then Florida Department of Environmental Regulation, Carol Browner, was confronted with the choice of continuing to permit the construction and operation of new mercury emissions sources or of imposing a moratorium on the issuance of new source permits until more information was obtained about the effects of their mercury emissions, she erred on the side of protecting the public health, not profit, in the face of uncertainty, and imposed the moratorium. As a consequence, Florida became a world leader in the monitoring, research, and modeling of the mercury cycle in the environment. I was privileged to lead that multi-agency, multi-entity effort from 1996 to 2000, when the South Florida Water Management District, at the direction of its Governing Board, officially opted out of Florida's mercury research program, because the mercury was coming from the air, over which SFWMD had no authority or interest. This status persisted until it became obvious that an oxidized form of sulfur, sulfate, in stormwater runoff from the Everglades Agricultural Area was causing or contributing to the downstream Everglades mercury problem, at which point SFWMD opted back in to more effectively represent local interests in the design, implementation, interpretation, and application of the results of the relevant mercury research.

As a consequence of this noble mercury pedigree, no Federal, state, or local agency was, is, or will be more able or in a better position to regulate mercury emissions to protect the public health and endangered wildlife than FDEP. The Federal Court Consent decree was issued in 1999 in the matter of Florida Wildlife Federation et al.vs. (ironically) Carol Browner et al., and USEPA published its revised methylmercury Water Quality Criterion (WQC) in fish flesh to protect human health in January 2001. Since then, FDEP has failed to promulgate a revised mercury WQS as or more protective of human health than the USEPA WQC to replace the duly promulgated WQS of 12 ng/L total mercury in

unfiltered water, which FDEP has officially acknowledged is not adequately protective of humans exposed via fish and shellfish consumption since 2001. In the face of an imminent and growing threat to the public health, safety, and welfare, FDEP has done less than the absolute minimum required to fulfill its official responsibilities. Instead, since 2001, FDEP's only relevant formal administrative action regarding this imminent and growing threat to the public health, safety, and welfare is the promulgation of a December 2006 revision to the impaired waters rule via the Environmental Regulation Commission that designates mercury-impaired waters to be a low priority for mercury TMDL development, because of, parenthetically, the current lack of understanding about the cycling of mercury in the environment. The Florida Legislature compounded the problem by exempting this prioritization scheme from public challenge. It would appear that a well-lobbied fix is in to ensure that Florida lags rather than leads the nation in protecting the public health, safety, and welfare from the mercury threat.

FDEP has failed to promulgate in a timely manner a revised Class III numerical WQS to protect human health and fish-eating wildlife or their predators as or more protective than USEPA's methylmercury Water Quality Criterion (WQC) to protect human health that would replace the existing mercury WQS, despite being under a Federal Court Consent Decree to develop and implement enforceable TMDLs for all impaired waters listed pursuant to CWA Section 303(d) by September 30, 2012, including mercury-impaired waters. Florida's existing mercury WQS was not violated in any lake or stream sampled in the one-time mercury monitoring campaign that began in 2007 and was completed in 2010. FDEP has known that Florida's existing mercury WQS was deficient since January 2001, when the USEPA WQC document was published. In the last triennial review cycle, FDEP proposed a revised mercury WQS of 0.2 ppm THg as methylmercury in fish flesh on a wet-weight basis to protect human health to reflect the higher average fish consumption rate and background methylmercury dose rate than the national averages used by USEPA to derive the 0.3 ppm value. That effort was subsequently abandoned without adequate notice or justification. Why a water quality target of 0.3 ppm THg is now considered adequately protective of human health when the more Florida-appropriate 0.2 ppm THg had been proposed for promulgation in the previous triennial review cycle will be the subject of inquiry before the Federal court.

Having abandoned its effort to promulgate a revised mercury WQS, FDEP's only formal administrative action to date regarding mercury was for the Environmental Regulation Commission to adopt a revised impaired waters rule in December 2006 to designate mercury-impaired waters as a low priority because of the current lack of understanding of the mercury cycle in the environment. The Legislature's only contribution in this regard was to exempt the listings, priorities, and schedules from public challenge as a matter of Florida law. Nothing in the Revised Draft Mercury TMDL for the State of Florida Report to USEPA Region 4 commits the State of Florida to the adoption of duly promulgated revised mercury WQS adequately protective of human health and threatened or endangered fish-eating wildlife and a set of duly promulgated mercury TMDLs to attain and maintain the duly promulgated revised mercury WQS or even a plan and schedule for their promulgation.

Ultimately, it will be up to the State Courts to determine whether the failure of past and present responsible Florida officials to act with due diligence in a good-faith effort to protect the health, safety, and welfare of all the people of the State of Florida rises to the level of gross negligence and dereliction of duty for which legal sanctions are both appropriate and necessary. If the courts so rule, this will send a message to future occupants of these high offices that Federal, Florida, and local agencies have a responsibility to protect people over profit. People and the resources held in public trust upon which they depend are not expendable as an administrative expedient. Concurrently, it will be up to the Federal Courts to determine whether USEPA Region 4 again abused its discretion in failing to carry out its responsibilities and exercise its authorities to promulgate a revised mercury WQS as or more protective than USEPA's WQC and a mercury TMDL for all mercury-impaired Florida waters when Florida failed to do so in a timely manner, as required by statute, regulation, and court precedent in the matter of Scott vs. the City of Hammond et al.

I also had the privilege of participating in the implementation of Scott vs. City of Hammond et al. while working for USEPA's Great Lakes National Program Office and with USEPA Region 5 in Chicago, so I am well-versed in what constitute valid technical limitations to TMDL development and implementation based on the current lack of understanding about the sources and cycling of toxic substances in aquatic ecosystems and the plans and schedules required to remove those technical barriers under a Federal Court Order. If USEPA Region 4 approves this scientifically, administratively, and legally deficient mercury TMDL for the State of Florida as captured in the Hg TMDL Report, it will have abused its discretion and become complicit in Florida's flouting of the Federal Consent Decree for which Federal Court sanctions are appropriate and necessary.

Background

According to the language of CWA Section 303(d)(1)(C) and the USEPA regulations and technical guidance promulgated and published to implement that provision, a Total Maximum Daily Load (TMDL) is calculated to attain and maintain the water quality standard, not an unenforceable target, taking into account seasonal variation in water quality and with an adequate margin of safety to compensate for any lack of knowledge about the relationship between the pollutant loading rate and the pollutant concentration in the receiving water under those seasonally appropriate infrequent conditions. The TMDL is then reduced by the required adequate margin of safety and then further reduced by the uncontrollable background sources, both natural and anthropogenic, including contributions from atmospheric deposition and groundwater recharge, and uncontrollable anthropogenic nonpoint sources, including unremediable soils and groundwater in the watershed and sediments in the water body, and man-induced irretrievable conditions, e.g., from abandoned mine drainage. This is the load allocation (LA). What remains is distributed fairly and equitably between and then among controllable nonpoint sources and all point sources. This is the Waste Load Allocation (WLA). The WLA formula used by both USEPA and FDEP is: WLA = TMDL - MOS - LA. If the LA is > TMDL - MOS, there is nothing left to allocate to controllable point and nonpoint sources, and the default water quality-based effluent limitation is nondetectable THg using USEPA-approved method 1631, not the water quality target. No delegated state has the authority to reduce the emissions of any pollutant from any air source or source category regulated under the Clean Air Act and cannot invoke the prospect of same to reduce the LA to increase the WLA. However, while a state's mercury reduction strategy may make reference to the reductions expected from the eventual implementation of new technology-based and/or air quality-based air emissions regulations, one can only subtract from the LA the actual reduction in their contributions to the LA only after those new CAA regulations take effect and the reductions are achieved that benefit a state's fresh and/or salt waters.

FDEP's Proposed Statewide Mercury TMDL and the WLA Deriving Therefrom are Scientifically, Administratively, and Legally Deficient

Critical Waterbody Categories and Potential Limiting Waterbodies Have Been Omitted from Florida's Statewide Mercury TMDL

The proposed statewide approach to the development and implementation of the mercury TMDL for inland fresh waters omits wetlands, no doubt because they are depauperate in large-bodied Trophic Level 3 and 4 sport fish species, except when rising stages reconnect the wetland with a permanent lake or stream. However, wetlands may have also been omitted because their surface area-to-volume ratios and flushing times, perimeter oxidation-reduction cycles, and sedimentation rates are inherently seasonal, as are the food webs that bioaccumulate the excess methylmercury generated in seasonal pulses following reinundation of oxidized soils, so there would be neither a scientific basis for ignoring seasonal variation, as was the case in lakes and streams, nor for assuming that the waterbody has reached a steady-state

condition relative to its long-term average mercury loading rate. Nevertheless, waterbodies in watersheds with upland wetlands tend to have higher methylmercury concentrations than waterbodies that don't, suggesting that the seasonality of wetlands and the seasonality of the lakes and streams under their runoff influence cannot be completely deconvolved.

All in-land and coastal waters will benefit from a reduction in the contributions from all point and nonpoint sources of mercury deposition to inland lakes and streams, but there is no guarantee that mercury-impaired salt waters will attain the water quality target, because the mercury load-methylmercury concentration relationships in freshwater lakes and streams and brackish and coastal marine waters are likely to be very different, and the methylmercury bioaccumulation potential for largemouth bass is not representative of the slow-growing, large-bodied, top-predator prized salt water sport fish. Some estuarine and coastal marine waterbodies are the limiting waterbody in the lake-stream-estuary series. See, for example, Lake Okeechobee-Everglades-Eastern Florida Bay. http://www.evergladeshub.com/lit/pdf11/Rumbold11estuarCoasts34-494-513-HgFLbayDeposition.pdf

The Water Quality Target Is Nor Adequately Protective of Human Health

The calculation of the TMDL is not based on a duly-promulgated, legally enforceable WQS but rather on an unenforceable water quality target based on USEPA's WOC of 0.3 ppm total mercury (THg) as methylmercury in fish flesh to protect human health, which FDEP recognizes is not adequately protective of the average Florida consumer, because it proposed a lower value of 0.2 ppm in the last triennial review cycle, let alone the subsistence consumer protected by the environmental justice provisions of Executive Order and Federal law. The probabilistic derivation of the daily average background methylmercury dose rate in ug/Kg bw-day uses the average concentrations of total mercury as methylmercury in each of a variety of salt water fish species consumed by Floridians, based on the assumption that exposure to fish methylmercury concentration extremes will be balanced over the course of the life of a woman of childbearing age, but because the half-life of methylmercury in the human female is about 50 days, a pregnant woman comes to near steady state with the methylmereury in her diet by the third trimester, when the developing fetus is most susceptible to the neurotoxic effects of methylmercury, so one "hot" background fish consumed during her pregnancy can cause short-term, reversible cognitive deficit and perhaps longterm, irreversible cognitive deficit in the developing fetus in response to consuming that fish at the average Florida rate of 22 g/day, irrespective of what happens during the rest of her life, let alone at subsistence rates 5x the Florida average fish consumption rate.

XXX???XXX

The Water Quality Target Is Not Adequately Protective of Fish- or Shellfish-Eating Wildlife or Their Predators

Even if the posting of mercury-impaired fresh and salt water lakes and streams were eventually determined by the courts to be considered adequate for the protection of the public health, safety, and welfare, the fish- and shellfish-eating wildlife held in trust by and for the citizens of Florida cannot read or heed the signs, both real and virtual. Section 2.4 on page 20 and Appendix E of the Revised Draft Mercury TMDL for the State of Florida Report to USEPA Region 4 discuss the methylmercury contamination status and trends and associated exposures and ecotoxicologically significant risks to fisheating wildlife and their predators in general and migratory and endangered species in particular. However, nowhere is there a reference to an ecotoxicolological risk assessment conducted by or for the State of Florida demonstrating that the proposed 0.3 ppm water quality target to protect human health will also be adequately protective, of individual threatened or endangered species on the Florida and Federal Government lists at the 95th percentile confidence level. The fact that USEPA in general and Region 4 in

particular has approved TMDLs that take this approach does not mean that it comports with the requirements of the Federal Clean Water Act or the Federal Endangered Species Act. To the contrary, USEPA Region 4 has abused its discretion in approving such deficient waterbody-specific mercury TMDLs in other states and was derelict in its duty to promulgate a mercury TMDL for each state containing this fatal flaw. That should and will be the subject of subsequent litigation. In the alternative, Florida ean revise the final draft Report to include the required trust species ecotoxicological findings, conclusions, and recommendations regarding the adequacy the 0.3 ppm target to protect the public trust in general and Florida and Federal wildlife trust species in particular.

FDEP now has in its possession or ready access to data, analyses, toxicodynamic/toxicokinctic (TDTK) models, ecotoxicological risk assessments, and reports demonstrating that the reproductive success of sentinel wildlife species will not be protected at a methylmercury concentration calculated by dividing the 0.3 ppm THg as MeHg water quality target by the 50th percentile (median) LMB BAF. This information includes the Great Lakes wildlife protection water quality criteria adopted by USEPA Region 5 for implementation of the Great Lakes Initiative published in the mid-1990s and the wildlife protection criteria derived by USEPA in its Mercury Report to Congress published in 1996 http://www.epa.gov/ttn/atw/112nmere/volume6.pdf. The wildlife protection WQC in water was 48 pg/L as unfiltered methylmercury based on the protection of the mink and the otter, and the equivalent Trophic Level 3 (T3) and Trophic Level 4 (T4) fish concentrations based on national median T3 and T4 BAFs are 0.077 mg/Kg THg as MeHg and 0.325 mg/Kg THg as MeHg. Using the same exposure assumptions, but substituting the median T3 and T4 BAF values from the one-time Florida mercury monitoring campaign, the corresponding WQC for MeHg is 54 pg/L and the T3 and T4 BAFs are 0.093 and 0.17 mg/Kg THg as MeHg to protect representative fish-eating mammals, the otter and mink. If an inter-species adjustment factor of 1/3 is applied to the mallard duck NOAEL estimate, as was done by Darren Rumbold, Ph.D., in an ecotoxicological risk assessment accepted by FDEP for the STA-2 Cell 1 start-up MeHg anomaly http://www.tandfonline.com/doi/abs/10.1080/10807030590925768, the average bird value controls instead of the average mammal value at 0.026 ng/L MeHg in water, which translates into 0.047 and 0.082 mg/Kg THg as MeHg in Florida freshwater T3 and T4 fish, respectively. However, wildlife exposures are based on the consumption of whole fish, while the protection of human health is based on consumption of fish flesh. FDEP did not report and whole fish-to-fillet ratio for THg as MeHg in LMB or sunfish species, so a default vale of 0.69 is adopted here for purposes of illustration (Ted Lange, FFWCC, personal communication). After the whole-to-fillet correction is applied to the T3 and T4 fish, without a LOAEL-to-NOAEL correction, the Florida mammals still control, albeit at 0.13 and 0.25 THg as MeHg in fish flesh-equivalents for T3 and T4 fish, respectively. If the corrected mallard duck value is used, the birds control at 0.07 and 0.12 for T3 and T4 fish, respectively. That being the case, the human health water quality target of 0.3 ppm THg as MeHg in fish flesh is not protective of birds, including the threatened or endangered bald eagle or wood stork, or mammals, including the endangered Everglades mink.

Focusing on the Florida panther, it has been well-documented in the peer-reviewed scientific literature: http://www.ncbi.nlm.nih.gov/pubmed/15217246, the Federal and Florida environmental and wildlife protection agency literature: http://nature.nps.gov/air/Permits/aris/ever/studiesMonitoring.cfm;, http://www.floridapanthemet.org/index.php and wildlife protection organization literature: http://www.panthersociety.org/mercury.html that exposure to methylmercury via foraging on methylmercury-contaminated aquatic life is a threat to the Florida panther subpopulations that frequent the Everglades National Park and Big Cypress National Preserve. The latter is now protected as Florida panther habitat under court order. FDEP now has in its possession or ready access to data, analyses, ecotoxicological risk assessments, transport-fate-bioaccumulation models, and reports demonstrating that the reproductive success of the endangered Florida panther is significantly compromised by a diet that includes a substantial portion of raccoons, otters, and/or small alligators at methylmercury concentrations equivalent to 0.3 ppm THg as MeHg in the

reference freshwater top-predator sport fish species, the largemouth bass. USEPA was unable to calculate a wildlife WQC to protect the Florida panther in USEPA's Mercury Report to Congress, because it would be strongly influenced by local food webs and foraging preferences rather than national averages: http://www.epa.gov/ttn/atw/112nmerc/volume6.pdf. However, it is possible to perform a Florida panther ecotoxicological risk assessment using local food web contamination and individual animal foraging preferences appropriate to the Everglades/BCNP:

http://books.google.com/books?id=aUBepzi4NF4C&pg=PA40&lpg=PA40&dq=Mace+Barron+Florida+ panther&source=bl&ots=BH2hhdcjAf&sig=YXaBip6m55DJqUBVhw5jd_E_4Z4&hl=en&sa=X&ei=Zc8 yULj1PIfY2gWQroDICQ&sqi=2&ved=0CDMQ6AEwAw#v=onepage&q=Mace%20Barron%20Florida %20panther&f=false. Florida panther exposure is especially problematic for the reproductive success of the Florida panther when that predation occurs during her pregnancy, when she is increasingly less effective in obtaining access to larger prey animals due to loss of habitat or insurmountable barriers to habitat and/or intra-species competition with larger, more aggressive males and/or less effective and efficient in the hunt and kill once such prey are located. Based on the observation by USEPA Region 4 staff that there has been no substantial decline in the atmospheric deposition of inercury http://www.epa.gov/region4/sesd/reports/epa904r07001/epa904r07001.pdf to the ENP between 1994 and 2007, one would not expect the concentrations in herbivores to have decreased, as well. I used the domestic cat NOAEL of 0.02 mg/K-day obtained by Charbonneau and co-workers (Charbonneau et al. 1976, the results of which were tabulated in the Florida Panther Interagency Committee Report, 1989), an inter-species protection factor of 3, methylmecrur BAFs appropriate to the Everglades, and foraging preferences identified by the USFWS as typical of the Florida panther to perform screening-level, steadystate, range-of-values ecotoxicological risk assessment for the Florida panther. It indicates that that toxic effects can be anticipated within typical ranges of exposure to methylmercury concentrations equivalent to 0.3 ppm in LMB, with a Hazard Quotient of approximately 2:1. If the pregnant female forages atypically disproportionately on raccoon, juvenile alligator, or otter, the HQ increases substantially. That being the case, FDEP has an affirmative duty and obligation to carry out the more rigorous dynamic, probabilistic ecotoxicological risk assessment for the Florida panther, as well as a reference threatened or endangered fish-eating bird species (e.g., the bald eagle and the wood stork), an endangered mammal species (e.g., the Everglades mink), and an endangered reptile (e.g., the North American crocodile). To do otherwise is a violation of the Federal Clean Water Act and Federal Endangered Species Act. http://www.crenetbase.com/doi/abs/10.1201/9781420032505.ch16

Based on that dynamic, probabilistic ecotoxicological risk assessment, the State of Florida has an affirmative duty to find officially that the proposed 0.3 ppm target is or is not also fully protective of all threatened and endangered species, migratory bird species, and any other Florida or Federal trust wildlife species. If not, Florida has an affirmative duty to derive, promulgate, and implement a methylmercury Water Quality Criterion to protect fish- and shellfish-eating wildlife that is more protective than that for the protection of human health. Instead, the Revised Draft Report does not even commit to anything more than the importance of somebody continuing to monitor mercury bioaccumulation in wildlife other than FDEP. The failure of the Federal Government to act in a meaningful way to protect Federal trust wildlife species from an inadvertent taking by methylmercury contamination is no justification for the State of Florida not to act in this regard under its equivalent Florida statutes and rules. Until that is done, the statewide mercury TMDL must be considered scientifically, administratively, and legally deficient and a point of third-party contention and legal entry to the regulatory process.

The Statewide Mercury TMDL Omits Significant Sources That Are Not Under CWA Control: Groundwater Discharge into Drainage Lakes and The Land Application of Biosolids

The Contribution of Groundwater Discharge

The calculation of the TMDL and the LA omits significant natural sources of mercury species, i.e., lakes and streams receiving various proportions of seasonally appropriate low flow via groundwater discharge to the lake. A majority of Florida's lakes are seepage lakes, yet the one-time statewide mercury monitoring campaign omitted groundwater monitoring altogether and aggregated seepage and drainage lakes for purposes of evaluating the chemical factors that influence the mercury loading rate-methylmercury bioaccumulation relationship. Thus, one is left to infer from a review of the limited relevant literature what the concentrations of THg and MeHg in surficial aquifers might be. For this screening-level exercise, the average values from the Biscayne aquifer studies in South Florida will be used to fill this critical gap. However, surficial groundwaters receiving leachate from land-applied biosolids are likely to contain higher than background concentrations in both mercury species.

Lake Annie, which was omitted from the one-time statewide mercury monitoring campaign, is a well-studied sink-hole lake in Central Florida with a "do not eat" fish consumption advisory for mercury in largemouth bass http://www.doh.state.fl.us/floridafishadvice/2012Brochure.pdf. During the course of a USGS water budget study, the annual rainfall was 43", ET was 53", and groundwater inflow was estimated to be 240" in water depth equivalents.

http://fl.water.usgs.gov/PDF_files/wri98_4133_sacks.pdf This may have been an atypical year for Lake Annie, because for most lakes in the region, evapotranspiration equals or exceeds rainfall by a few inches, not ten. However, it underscores the importance of taking into account abnormal and normal antecedent physical, chemical, and biological conditions and the abnormal and normal seasonal variations in water chemistry associated with those antecedent conditions to understand where the lake is in its biogeochemical trajectory for purposes of developing a waterbody-specific mercury load-methylmercury bioaccumulation relationship from which a waterbody-specific mercury TMDL and WLA derive.

If the rains contain a depth-weighted annual average THg concentration of, that is equivalent to a an annual mercury load of 14.5 ug/m²-yr. Dry deposition may increase the wet atmospheric deposition contribution value of 25% to 50%. The value calculated for Central Florida in a study of runoff from a paved area was 22% http://etd.fcla.edu/CF/CFE0000959/Fulkerson Mark 200605 PhD.pdf, but that could have been biased low due to the preferential retention of reactive mercury species, so a value of 35% would appear more appropriate for this screening-level exercise. Based on a USGS study of groundwater in South Florida http://pubs.usgs.gov/sit/2007/5240/ the average concentrations of THg and MeHg in the surficial Biscayne aquifer were 0.42 ng/L THg and 0.058 ng/L MeHg. The corresponding loading rate of THg to Lake Annie was calculated to be roughly 15% and 12% of the combined total without and with a dry deposition contribution of 35%. However, if, as others have calculated and FDEP has adopted, natural background is only 30% of wet and dry atmospheric deposition to the State of Florida on average, the groundwater inflow contribution in the Lake Annie case is roughly 45% of the statewide average contribution from wet and dry atmospheric deposition to the irreducible natural background THg load and 31% of the new combined natural background contribution total. Thus, groundwater makes a very substantial contribution to the irreducible natural background load and a substantial contribution to the mercury budget upon which is to be based the mercury load-methylmercury bioaccumulation relationship or the multivariate regression analysis of the influences of water quality on that relationship. The rate of methylmercury production in Lake Annie is not known, so it is not possible to compare the significance of the allocthonous and autocthonous contributions of methylmercury to Lake Annie at this time. Nevertheless, if wet deposition of MeHg is typically 2.5% of that for THg statewide per the work of Hammerschmidt and co-workers for the continental U.S. as a whole http://www.met.sjsu.edu/faculty/bornstein/old/papers/AqueousMethylation.pdf, although the Florida

value may be lower by a factor of 5 (Tom Atkeson, FDEP, personal communication). If the same proportion holds for dry deposition of MeHg as for THg, then the groundwater contribution for this specific circumstance is about 1.8 times the contribution from wet and dry atmospheric deposition or 64% of the new combined total allocthonous contribution, and, if the same ratios hold for natural background for MeHg as for THg, the groundwater contribution is 6 times the natural background contribution from wet and dry atmospheric deposition or 86% of the new combined total MeHg natural background contribution. This biases the groundwater contribution high, however, because there is no accounting for the direct runoff contribution of MeHg to Lake Annie, but for watersheds in which there is no land application of fertilizer or biosoilds, the MeHg in stormwater runoff originates primarily with the inorganic mercury in wet and dry atmospheric deposition with subsequent methylation in the surficial soil or sediment in upland wetlands in the watershed, so from the state's perspective, this is double-counting of the wet and dry atmospheric deposition contribution to the lake's methylmercury production and bioaccumulation, and only the waterbody-specific ratio of mercury load-methylmercury bioaccumulation is affected, not the linearity of its response to a load reduction. However, if the lake is receiving more of its mercury load from an uncontrollable natural background source such as groundwater, then the corresponding reduction of the controllable load must be greater than the 86% calculated by FDEP to reduce the concentration of MeHg in LMB flesh in the 90th percentile lake to the water quality target of 0.3 ppm THg as MeHg in fish flesh. When this calculation is carried out taking into account the observed natural background contribution that groundwater made to the Lake Annie mercury budget under the hydrological conditions observed during the USGS study, Lake Annie is over-allocated by 5%. So, the groundwater contribution does affect not only the water-body specific THg and MeHg mass budgets but the responsive of the lake to a reduction in the wet and dry atmospheric deposition contribution from air emissions sources controlled under the CAA.

In addition, an accurate waterbody-specific mercury mass budget for Lake Annie would also have to account for the direct runoff contribution, and that, in turn, should be one of the variables in the statewide mercury water quality model. Unfortunately, while the author of the multivariate regression analysis was able to cleverly infer and partially but not completely account for the relative contributions of direct deposition and runoff on lake water quality and the mercury load-methylmercury bioaccumuation relationship from the ratios of the concentrations of natural and anthropogenic tracers in the sediment, it would have been more direct to include the ratio of watershed to waterbody surface area as one of the independent variable in the development of the statewide mercury "water quality model." This is also true of the parsing of seepage and drainage lakes, the for which the author was also able to partially but not completely account. Moreover, the %MeHg in filtered groundwater in the Biscayne aquifer (~14%) is only slightly higher than the corresponding %MeHg in filtered water from the lakes studied by FDEP (12%) in its one-time statewide mercury monitoring eampaign, so it is possible that the biogeochemical control of the distribution of MeHg amongst dissolved, complexed, and particulate phases is predominated by the same influential chemical factors in groundwater and surface water, especially in seepage lakes, with the shielding of MeHg from the sunlight-driven physical, chemical, and biological processes extant in open surface waters playing only a secondary role. The use of stable mercury isotope analysis should clarify the origin of the inorganic mercury and methymercury in groundwater: (1) wet and dry atmospheric deposition, (2) land application of fertilizers or biosolids, and/or (3) leaching from aquifer material and in situ MeHg production. Clearly, there are lakes where the contribution of groundwater to the mercury species mass budgets cannot be ignored. Perhaps the sources, fate, and contributions of groundwater recharge to mercury cycling in seepage lakes can be made a research priority.

The Contribution of Legacy Sediments

The calculation of the TMDL and the LA omits significant contributions of uncontrollable nonpoint sources, including soil and sediments containing legacy inorganic mercury residues contaminated by

historically much higher anthropogenic sources of inorganic mercury. Using a diffusive exchange calculation, the median THg concentration in sediment, and the median $\log K(\text{Hg(II)}^{+2} \text{ value of 5.1})$ calculated from the water quality data collected in the one-time statewide mercury monitoring campaign, the calculated flux from the active sediment layer of 4 cm is 9% of the annual average wet and dry atmospheric deposition flux of 22 ug/m²-yr. That increases to 52% when one invokes a six-fold enhancement of the Hg(II)^{2+} flux attributable to dense bioturbation, as was measured in flux chamber experiments in a well-characterized reservoir environment $\underline{\text{http://www.clu-}}$

in.org/download/contaminantfocus/mercury/Fate-Transport-and-Transformation-of-Mercury.pdf; http://www.dissertations.wsu.edu/Thesis/Fall2011/s cox 112911.pdf When the USEPA nationwide average og K(Hg(II)⁺² value for sediment is substituted for the water column value obtained in the FDEP study, the undisturbed and highly bioturbated sediment/water exchange flux increases to 40% and 238% of the annual average wet and dry deposition flux. If the water column Kp value is reduced by the same proportions as USEPA's national average water column and sediment Kp values (4.9/5.3)*5.1, the undisturbed and bioturbated values increase to 83% and 500%, respectively.

Clearly the release of legacy Hg(II)²⁺ from historically contaminated sediments can make a substantial contribution to the inorganic mercury budget of a lake and stream, and this could have a substantial influence on MeHg production and bioaccumulation, unless it is assumed that it is in a form that is not bioavailable to methylating bacteria. This phenomenon was reproduced in a stable isotope dosing study of an experimental lake in Canada for the METAALICUS Project, where less than 1% of the legacy Hg(II)² in the sediment reservoir was methylated. Whether this phenomenon is generalizable from one northern temperate lake to all subtropical Florida lakes remains to be observed and calculated in a representative set of drainage and seepage lakes with a measured or calculated rate of sedimentation from which to infer the clearance rate of legacy Hg(II)²⁺. This also underscores the importance of biogeochemical kinetics over equilibrium thermodynamics in dictating the pathways and rates of transport, speciation, and transformation of mercury species in the aquatic environment. This is also proof of the concomitant logical fallacy of simultaneously assuming that a lake or stream has reached steady-state conditions in response to the long-term average wet and dry mercury deposition flux, when those assumption are mutually exclusive. In the interim, however, it would seem prudent to include the contribution of the present-day sediment/water exchange flux of dissolved Hg(II)²⁺ from sediment pore water to the overlying water column as one of the influential factors in the statewide mercy water quality model obtained via multivariate regression analysis.

This Hg(II)²⁺ flux may be offset to some, a great, or a complete extent by the net evasion of Hg(0) generated by the photoreduction of DOC-complexed Hg(II)²⁺, as was also observed for the simulated wet and dry atmospheric deposition in the METAALICUS study. However, that cannot be assumed to be the case for the median or representative worst-case 90th percentile lake or stream, especially in deep lakes and/or lakes with a high dissolved organic carbon (DOC) concentration, without further analysis, integration, and synthesis that can only be achieved through mechanistic mathematical modeling. Such models have been available to FDEP since the turn of the new millennium. http://www.clu-in.org/download/contaminantfocus/mercury/Fate-Transport-and-Transformation-of-Mercury.pdf

The Florida Mercury TMDL Ignores the Contribution of Anthropogenic Land Uses, including Land-Applied Fertilizers and Biosolids

Known mercury sources of air emissions to Florida include coal-fired power plants, medical waste incinerators, crematoria that do not remove mercury fillings before cremation, dental amalgam: http://www.epa.gov/region5/mercury/pdfs/dentaloptions3.pdf, municipal landfills: http://www.bvsde.paho.org/bvsacd/cd48/4658.pdf and land-applied municipal sewage sludge: http://www.scribd.com/doc/64712811/Biosolids-Application; http://www.weao.org/assets/docs/residualsBiosolids/final_report.pdf This last is not only a source of

stormwater runoff to nearby lakes and streams and seepage of leachate containing inorganic mercury, methylmercury, and elemental mercury to the underlying surficial aquifer, it is also a source of evasion of the gas phase of elemental mercury and methymercury http://web.visionlearning.com/carpi/Hg.htm and dry deposition of dust particles suspended by wind, predominantly but not exclusively within the watershed. http://www.scribd.com/doc/72647699/Morrison-R-2005-Environmental-Forensics-Contaminant-Specific-Guide

;http://www.newmoa.org/prevention/topichub/22/Hg Report Vol 3 Conclusions References&Appendic es.pdf A mercury soil transport-fate model adapted by USEPA's Office of Research and Development from the GLEAMS platform for small catchment areas, which includes evasion, leaching, and runoff and was parameterized and calibrated to South Florida conditions, has been available to FDEP since its publication in 1999: http://www.sciencedirect.com/science/article/pii/S0045653598006018.

The calculation of the statewide mercury TMDL and the WLA omits the contribution of significant controllable nonpoint sources within the watershed, including the local atmospheric deposition of winderoded THg- and methylmercury-contaminated particles and stormwater runoff of leached and particlebound THg and methylmercury from decommissioned and active sites of land application of biosolids. which FDEP's own permit-mandated monitoring data document substantial contamination with THg above natural soil background levels. For quantitative perspective, according to a Florida Department of Commerce Report, in 2010 there were 37,691 dry English tons of imported and 217,303 dry English tons of Florida-originating land-applied biosolids in Florida. The average THg concentrations from each source were by FDEP to be 0.88 and 0.68 mg/Kg dry weight, respectively. That amounts to 73 of lbs of THg per year in imports and roughly 325 lbs of THg in land-applied biosolids of Florida origin. For a sense of mass proportion, the corresponding contribution from all point sources in Florida discharging at a water concentration equivalent to the existing Class III numerical mercury WQS of 12 ng/L is about 88 lbs/yr, while that is reduced by an order of magnitude when one substitutes for the existing mercury WQS the water quality target equivalent to LMB fish flesh of 0.3 ppm, which FDEP calculates to be 1.25 ng/L THg in unfiltered surface water, and by another order of magnitude if one substitutes the method detection limit routinely achievable by FDEP of 0.1 ng/L in surface water. Clearly one must take into account waterbody-specific and statewide median and upperbound contributions to biosolids applicationrelated aerosol deposition, evasion, leaching to groundwater, and stormwater runoff in excess of the permit-mandated on-site stormwater retention capacity, the condition, transport, application, cover, and monitoring of which is regulated under appplicable waste and wastewater statutes, regulations, standards, and guidelines. The omission of mercury species originating with land-applied biosolids from the waterbody-specific and statewide mercury TMDLs is a fatal flaw that must be corrected prior to submittal of a new Revised Draft Hg TMDL Report to USEPA Region 4 for review and comment.

The Mercury Loading Rate-Methylmercury Bioaccumulation Relationship Is Not Accurately Calculated

The assumption that all lakes and streams have reached a steady state condition with respect to their long-term average mercury wet and dry atmospheric deposition loading rates is an administrative expedient not based on sound science and contradicted by the relevant facts:

- presupposes that there are no significant mercury sources in the watershed unrelated to atmospheric deposition, which is not true;
- presupposes that the contributions from wet and dry atmospheric deposition have not changed significantly over the response time of each waterbody, which is highly unlikely, based on the fact that Florida led the nation in local source mercury emissions reduction in the 1980s and early 1990s;
- ignores the potentially substantial contribution of the flux of inorganic mercury from sediments contaminated with historically higher mercury deposition fluxes;

- one can infer from the mercury monitoring, research, and modeling literature and data by or for FDEP or accessible to FDEP in the scientific, regulatory, and consulting literature that the response time of a waterbody to mercury load reduction is on the order of the time it takes a waterbody to deposit a few millimeters of undisturbed sediment, which is one the order of months to years, not decades or centuries;
- unfortunately, the one-time, statewide mercury monitoring campaign omitted a measurement of
 the sedimentation rate and the statewide mercury TMDL development process omitted the
 modeling of the sedimentation rate;
- the sedimentation rate is also strongly influenced by trophic status, but the study design failed to parse phosphorus, nitrogen, and light-limited lakes or measure C:N:P ratios in algae or photosynthetically active radiation (PAR), which also influences the pathways and rates of photoxidation of methylmereury to inorganic mercury and the photoreduction of inorganic mercury to elemental mercury with subsequent evasion.

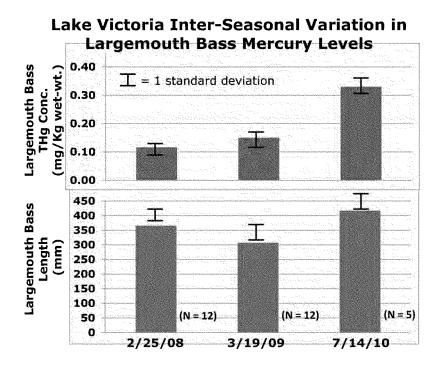
If it were true that every water body has reached a steady state between its long-term average mercury atmospheric deposition loading rate and the rates of methylmercury production and bioaccumulation, then to integrate out the water quality variation at every time scale, the long-term averages of the water quality parameters should have been substituted for the one-time sampling results. This was not done, because it would have substantially reduced the number of parameters that one could take into consideration in the multivariate regression. So the water data are inherently "noisy". The calculation of the TMDL fails to take into account that the physical, chemical, and biological influences on the relationship between the mercury species loading rates and methylmercury production and bioaccumulation in a water body vary in magnitudes, durations, and frequencies, such that one-time sampling cannot reveal those influence on that relationship. The calculation of a statewide mercury load-methylmercury bioaccumulation relationship fails to take into account the biogeochemical cycles of carbon, oxygen, sulfur, iron, manganese, and the limiting nutrient, which is frequently but not always phosphorus in fresh waters and nitrogen in salt waters. The influence of those cycles cannot be extracted from data collected by multivariate linear regression analysis of water, sediment, and fish data collected in a one-time statewide mercury monitoring campaign that omitted the sampling of sediment pore water where the mercury methylation and demethylation action is.

The Statewide Mercury TMDL Fails to Account for Seasonal Variation

Clean water Act Section 303(d)(1)(C) requires that a TMDL be calculated taking into account seasonal variation in water quality. The statewide mercury monitoring campaign cannot account for seasonal variation in water quality, because with only a few exceptions, each waterbody was only sampled one time. There was no systematic attempt to sample the waterbodies in the same season to factor out seasonal differences within and between waterbodies, because seasonal differences were a matter of no consequence, so the study design was fatally flawed. The calculation of the statewide mercury TMDL fails to account for seasonal variations in mercury species loading rates and physical, chemical, and biological conditions mediating the loading rate-concentration relationship in selecting the design conditions that represent a seasonally appropriately infrequent minimum in the mercury assimilative capacity of various categories of standing and flowing receiving waters.

If it were true that every water body in Florida has reached a steady state between its long-term average mercury atmospheric deposition loading rate and the rates of methylmercury production and bioaccumulation, then to integrate out the water quality variation at every time scale, the long-term averages of the water quality parameters should have been substituted for the one-time sampling results in the state's "water quality model". This was not done, because it would have substantially reduced the number of parameters that one could take into consideration in the multivariate regression. So the water data are inherently "noisy". A random sampling of various waterbodies included in the study indicates that there were substantial differences between the one-time sampling results and the long-term average

values for many of the parameters in the statewide routine lake and stream monthly water quality monitoring program. Based on the results in the eight lakes that were resampled in two distinct seasons, there are sufficiently significant differences in the average LMB concentrations between seasons that increase the probability of concluding that the waterbody is not mercury-impaired when it is in 4 of 8 lakes. When the LMB concentrations are size-standardized to 15" length using a waterbody-specific regression relationship of the log-transformed data, the frequency of that administrative error decrease from 4 to 3 lakes. Thus, the data obtained in the few excursions from one-time sampling demonstrate administratively significant seasonal variation that cannot be ignored and that can only be accounted for in a scientifically rigorous way by long-term seasonal sampling of water, sediment, and fish. The assumption that all lakes and streams have reached a steady state condition with respect to their long-term average mercury wet and dry atmospheric deposition loading rates is an administrative expedient that is not based on sound science, is contradicted by facts in evidence, and is contrary to the letter and intent of Section 303(d)(1)(C) of the CWA. See unlabelled figures 1, 2, and 3 below.



Statewide Mercury Monitoring Campaign Inter-Seasonal Variation: Largemouth Bass THg Concentrations

	Un- Standardized Ist Sampling Event		Standardized Is Sampling Event	No. of Fish	Un- Standar dized 2nd Sampling Event		Standar dized 2r Sampling Event	nd No. of Fish
	Average	Std.Dev.			Average	Std. Dev.		
Lake Victoria	0.12	0.03	0.22	12	0.15	0.06	0.12	12
Lake Dexter	0.22	0.12	0.44	9	0.19	0.08	0.20	12
Lake Weir	0.32	0.10	0.60	9	0.42	0.16	0.50	12
LakeYale	0.18	6.03	0.20	10	0.18	0.09	0.21	12
LakeJackson	0.21	0.10	0.26	12	0.46	0.22	0.40	8
Lake Ellen	1.26	0.18	1.17	6	0.67	0.26	0.78	12
Suwanee Lake	0.17	0.03	0.27	12	0.29	0.11	0.34	12
LakeParker	0.03	0.03	0.16	9	0.10	0.03	0.08	12
Lake Thonotosassa	0.05	0.02	0.05	9	0.15	0.07	0.14	12
Lake Catherine	0.90	0.20	1.50	8	1.05	0.26	1.32	8
Lake Kerr	0.36	0.17	0.66	8	0.62	0.22	0.63	12
Mildam Lake	0.24	0.10	0.50	9	0.44	0.19	0.38	12

Standardized = LMBTHg Conc. Calculated at 15" Using LN-Linear Regression Relationship between THg Conc. and Length

Statewide Mercury Monitoring Campaign Inter-Seasonal Variation: Largemouth Bass THg Concentrations

			Un-Standardized	Standardized Masimum Perecut Difference between 1st		Standardized
	& 2nd Sampling Event	TypeI Error	Type II Error	& 2nd Sampling Event	Standardized TypeI Error	Type II Error
Lake Victoria	-28,99		x	-78.49		x
LakeDexter	1531			-114.75		
LakeWeir	-28.17			39.43		
Lake Yale	0.33			-65,71		
Lake Jackson	-119.19		X	56,84		X
Lake Ellen	47.36			-30.33		
Suwanee Lake	-68.78		X	70.52		X
LakeParker	-17.23			8.57		
LakeThonotosassa	-214.45			68.33		
LakeCatherine	-16.99			24.20		
Lake Kerr	-70,25			21,75		
Mildam Lake	-87.94		X	45.07		

Standardized = LMBTHg Conc. Calculated at 15° Using LN-Linear Regression Relationship between THg Conc. and Length

Due to the seasonal variation that was ignored in the design of the one-time, statewide mercury monitoring campaign and the analysis, integration, and synthesis of its results, there is a statistically significant probability that a resource manager will incorrectly conclude that a waterbody is not mercury-impaired when it is or that it has recovered from that mercury impairment as consequence of mercury atmospheric load reduction when it has not. The use of age, size-, or weight-standardized transformations of the fish data is unlikely to reduce the rate of committing such a critical error in judgment to acceptable levels. See the unlabeled figures 1, 2, and 3 above. The unacceptable probability of committing such resource management decision-making errors is a consequence of the flawed study design that followed from the faulty assumption that is contradicted by the study results, thereby negating the value of the study results and the mercury resource management and point source regulation decisions deriving therefrom. The margin of safety in the compounded assumptions adopted by FDEP to develop and implement the statewide mercury TMDL approach is inadequate to compensate for the tendency of resource managers to draw incorrect conclusions of such critical consequence. I amplify on this key finding below.

The Margin of Safety Is Improperly Accounted For and Is Not Adequate to Compensate for the Compounded Errors and Uncertainties in Statewide Mercury TMDL Development and Implementation

CWA Section 303(d)(1)(C) requires that the TMDL be calculated taking into account seasonal variation in water quality with an adequate margin of safety to compensate for any lack of knowledge about the relationship between the pollutant loading rate and its concentration in the receiving water. The applicable USEPA regulations and technical guidance allow for an explicit or implicit margin of safety in the pollutant loading rate-concentration relationship. As a matter of policy, Florida has chosen to invoke an implicit margin of safety in the various assumptions used in TMDL derivation. However, USEPA's applicable TMDL technical guidance requires that the sources and magnitudes of the margins of safety in the load-concentration relationship from those assumptions be made explicit. Florida calculates the statewide mercury TMDL improperly by including an allegedly adequate implicit margin of safety in the water quality target, not the mercury load-methylmercury bioaccumulation relationship. The implicit margin of safety in the water quality target is not adequate to compensate for any lack of knowledge about the mercury load-methylmercury bioaccumulation relationship.

p. 42:

This section purports to set forth the USEPA-approved approach to TMDL development and implementation. Step 5 in the allegedly USEPA-approved process is as follows:

(5) Establishing a margin of safety of the TMDL to address the uncertainties associated with the target development

This is not consistent with the language of CWA Section 303(d)(1)(C), which requires a margin of safety to compensate for any lack of knowledge about the relationship between the effluent limitation and receiving water quality after taking into account seasonal variation in the assimilative capacity of the waterbody for the pollutant of concern. See Exhibit A. It is also inconsistent with the USEPA TMDL regulations and technical guidance promulgated and published to implement that provision. See Exhibits B-E. According to the language and intent of the CWA TMDL provision, the margin of safety is supposed to be in the assumptions, approximations, interpolations, and extrapolations regarding the pollutant loading rate-receiving water concentration relationship, not in the water quality target. The margin of safety in the WQS promulgated to protect the public health, safety, and welfare is supposed to compensate for uncertainties in the toxicological sensitivity of the most exposed, most susceptible life stage of the most exposed, most susceptible humans. If the margin of safety were adequate in the water quality target of 0.3 ppm THg as MeHg in the flesh of the reference freshwater sport fish species, the

LMB, why in the last CWA-mandated WQS triennial review cycle did FDEP propose to replace the existing, deficient mercury WQS of 12 ng/L unfiltered THg in surface water by public noticing a lower proposed revised mercury Water Quality Standard of 0.2 ppm THg as MeHg in fish flesh to take into account the greater fresh and salt water fish consumption rates and background exposures to MeHg of the average Florida woman of child-bearing age (15-44) vs. the national average assumed in the derivation of USEPA's WQC of 0.288 ppm rounded up to 0.3 ppm (21 g/day for a 63 Kg woman vs. 17.5 g/day for a 70 Kg woman and 1.32 E-4 vs 2.7E-5 mg/Kg-day.) FDEP claims a 10-fold margin of safety in the use of USEPA's WQC as the target value relative to the threshold of effect value of 0.058 mg/L in cord serum blood. However, when one uses the same one-compartment uptake and depuration model used by USEPA in the derivation of the 0.3ppm WQC, the ratio is closer to 6:1, because the actual WQC derived in this way is 0.288 ppm, not 0.3 ppm, and when Florida's higher average fresh and salt water fish consumption rates are substituted for USEPA's 17.5 g/day and 1.7E-5 mg/Kg-day, that ratio diminishes to about 3:1, assuming, as USEPA did, that the percentage of THg as MeHg in fish is 95% and the absorption efficiency is 95%. If FDEP's assumptions of 100% and 100% are used instead, that ratio decreases to about 2.5:1. If one multiplies the 0.3 ppm value by the median seasonal variation of 1.93: 1 for size-standardized 15" LMB observed in the 8 lakes that were resampled in the statewide mercury monitoring campaign in two seasons to take into account seasonal variation, that margin of safety diminishes to about 2:1. If the statewide ratio of the 92th percentile fish to the 1/12th percentile fish is used to compensate for the tendency tfor people to bias what they consume to larger fish, a similar 2:1 ratio is obtained. If one combines the seasonal variation and fishing high bias, the margin of safety disappears.

If one uses the higher subsistence fish consumption rate of 135 g/day documented in a large, multi-year study conducted by academic researchers of African-American women living in the Southeast http://www.ncbi.nlm.nih.gov/pubmed/22225823, the margin of safety for this cohort disappears, even for the national average exposure assumptions used by USEPA in the derivation of the nationwide WQC of 0.3 ppm. Therefore, the subpopulation of childbearing-age minority women that are subsistence consumers of fish are at a substantial risk of giving birth to a child with a methylmercury-induced cognitive deficit that may or may not diminish as the child ages, contrary to environmental justice considerations. As the average income has declined relative to the increase in the cost of living over time, even prior to the onset of the Great Recession, there has been a concomitant increase in the magnitude, duration, and frequency of subsistence fish consumption and the increased health risks that portends, and this is one of the hidden costs of the loss of jobs that pay a living wage.

Finally, FDEP is assuming that exposure to MeHg is occurring in a consumer, occupational, and environmental vacuum, when one is being exposed simultaneously to multiple neurotoxic heavy metals, including lead, organometallics, including trubutyltin and its environmental degradates, and polychlorinated organic molecules bioaccumulating in fish and shellfish, including polychlorinated dioxins, furans, and biphenyls (PCBs). In fact, USEPA had to derive the methylmercury reference dose by deconvolving the influence of PCBs to which the study population was being simultaneously exposed assuming a linear additivity to the contribution of PCBs and MeHg to the observed neurotoxic effect of cognitive deficit. One must acknowledge that there is greater uncertainty as to the pathways, rates, mechanisms of action, and toxicological consequences of exposures to neurotoxic pollutants other than MeHg, including whether the additivity model is accurate for all such combinations. In the context of all of the preceding discussion regarding the erosion in the margin of safety as one systematically substitutes Florida-specific for national exposure assumptions, one's confidence in the adequacy of the margin of safety in the McHg reference dose has been substantially undermined on the toxicological side, so FDEP cannot then invoke its adequacy on the mercury load-concentration relationship side. Thus, the implicit margin of safety that FDEP claims is adequate as a consequence of how the 0.3 ppm THg as McHg in fish flesh water quality target is derived and implemented is both administrative deficient and scientifically inadequate, so FDEP must adopt a margin of safety in the derivation of the mercury load-concentration

relationship such that the contributions to the combined margin of safety made by the set of assumptions, approximations, interpolations, and extrapolations are made explicit, even for an implicit margin of safety.

So, for example, if I assume that every waterbody in the state has reached a steady state with its long-term average mercury loading rate from all direct and indirect in-state, national, continental, global, and natural background mercury air emissions sources to justify the use of a linear load-concentration relationship and load reduction, one cannot then use the results of a one-time statewide mercury monitoring campaign to reduce the uncertainty introduced by that assumption, because one can only reduce that uncertainty by conducting seasonally relevant long-term monitoring of the reference sport fish THg as MeHg concentrations. FDEP has data and reports in its possession or to which it has access in the scientific, regulatory, or consultant literature demonstrating significant inter-seasonal and inter-annual variation in LMB THg as methylmercury concentrations that does not disappear when the fish are standardized by age, size, or weight. Nor can one ignore results contrary to that assumption, including the observed substantial and statistically significant difference in LMB THg concentrations for fish collected from the same waterbody in different seasons for the fish data in Appendix H, so the seasonal dynamics in fish reproduction status, growth rates, and foraging preferences preclude the attainment of steady state conditions or at least the assumption that one-time sampling of water and fish is representative of those steady state conditions, when only long-term monitoring can appropriately average out those seasonal fluctuations.

Some of that variability is due to the large range of the LMB, such that not all of the LMB harvested from a waterbody have spent all or the majority of their time foraging in that waterbody. In addition, precisely because LMB only slowly depurate the methylmercury they bioaccumulate, the methylmercury body burden they acquired while foraging during their rapid growth phase is their methylmercury contamination and concentration destiny, so even if the water column concentration of methylmercury subsequently increases or decreases by an order of magnitude, the large-bodied, slow-growing, prized lunker LMB have locked in the methylmercury to which they were exposed before the change. In essence it takes a LMB a lifetime for a methylmercury pulse to clear from the system and a new cohort of young-of-the year LMB to begin to bioaccumulate methylmercury under the changed conditions. However, while most LMB will regress the mean, some will have hot and cold streaks, so the within population variability will never disappear, even when a waterbody has achieved the hypothetical methylmercury production and bioaccumulation steady state condition with its long-term average external and internal mercury loading rates.

Only long-term monitoring of these inherently biogeochemically and biologically dynamic systems will average out these oscillations and allow one to calculate an accurate mercury loading rate-methylmercury bioaccumulation relationship using the LMB as the reference T4 sport fish species. Hence the need for a substantial margin of safety on the mercury load-concentration side separate from the nonexistent one invoked on the exposure-effects side.

p.82, Chapter 8: Determination of the TMDL

8.4 Margin of Safety

There are multiple lines of evidence to support the use of an implicit margin of safety in this TMDL. Consistent with the recommendations of the Allocation Technical Advisory Committee (Department, 2001), an implicit MOS was used in the development of this TMDL. Included in this implicit MOS is the assumption that all of the mercury in fish tissue is in the form of MeHg (the harmful fraction) and it is not. As discussed in Section 2.2, the application of a multifold increase in setting of the reference dose for MeHg is another significant component of the Margin of Safety (MOS). As noted previously, compared to other fish species, Largemouth Bass have higher overall tissue MeHg concentration because their position in the food chain dictates a longer food chain length for bioaccumulation. Use of Largemouth

Bass for the TMDL target development provides another margin of safety to the TMDL as all other fish living at lower trophic levels will also benefit.

There Is No Margin of Safety in the Assumption that All of the THg is MeHg in LMB Flesh

In the late 1990s USEPA published a method for ultra-trace total mercury (THg) analysis in fresh and salt water, sediment, and fish as Method 1631 for use in the NPDES permit program. The link to the set of USEPA-approved methods is contained in Exhibit E. The corresponding method for ultra-trace MeHg analysis in water, sediment, and fish, Method 1630, was published in draft for comment but was never formally adopted for application in the NPDES permit program. Instead, USEPA decided to regulate exposure to MeHg using fish and shellfish flesh as the representative medium for regulation rather than the water itself and total mercury (THg) rather than MeHg as the representative analyte for regulation. This made sense because (1) fish and shellfish are the predominant pathway of MeHg exposure to humans and wildlife, (2) most of the THg in fish flesh is MeHg, and (3) analyzing THg is more accurate and less expensive than analyzing MeHg in fish flesh, so analyzing for THg as MeHg in fish flesh would implement the revised mercury WQS without being overly burdensome in terms of a regulatory margin of safety, that is, there is an acceptable probability of committing Type I error: concluding that the waterbody is mercury-impaired when it is not. In fact, more than 90% of MeHg is THg in more than 90% of the LMB from at least 90% of Florida's freshwaters, so there is no margin of safety introduced by the assumption that all of the THg is MeHg in a mercury TMDL based on that assumption. FDEP claims to the contrary are contradicted by the facts, including common knowledge, data already in its possession, and data it could obtain if it analyzed a representative randomly selected subset of the LMB archived in its ultra-cold freezer at FWC's Eustis office. However, the ultra-trace MeHg analytical method used by FDEP for surface water and sediment but not fish flesh is not substantially equivalent to the ultra-trace MeHg analytical method used by Region 4 in states that could not or would not conduct the required ultra-trace MeHg analysis in surface water: USEPA Method 1630. So it is not clear whether USEPA Region 4 will approve FDEP's use of this alternative method in calculating LMB MeHg BAFs and MeHg-to-THg ratios in surface water, especially in light of the fact that an earlier petition for substantial equivalence was rejected by USEPA and USEPA Region 4 staff declined FDEP's offer to conduct ultratrace THg and MeHg analyses for REMAP III at a competitive price relative to commercial laboratories with ultra-trace mercury analytical capabilities because of FDEP's unapproved ultra-trace MeHg analytical method.

There Is No MOS in the Use of LMB to Define Mercury Impairment and Recovery

Regarding the use of LMB as the representative indicator species for mercury impairment in freshwater sport and commercial fisheries, the question is not whether LMB have higher average concentrations than all lower trophic level sport and commercial fish and shellfish species in Florida's fresh waters, but whether (a) LMB are adequately representative of all harvestable fish species at the same trophic level and (b) whether using the average, median, or 90th percentile THg concentration in LMB to define mercury impairment, calculate the required mercury load reduction, and monitor recovery is adequately protective of sport fish consumers, because the sport fishers bias their fish collection to the older, larger fish with the highest methylmercury concentrations, while the state statutes biases the determination of and recovery from impairment to the population mean for each waterbody, and the statewide 90th percentile fish is not equivalent to the water body-specific 90th percentile fish.

Even If All of the Sport Fish Harvested and Eaten Were at Trophic Level 3, the Use of Largemouth Bass Would Only Compensate for Within-Lake Seasonal Variation

The ratio of the median concentrations of THg as MeHg in the edible flesh LMB to sunfish species for Florida streams is 2.18. In general, LMB is a more popular sport fish than the sunfish species, but people

will only consume what they or a relative or friend who shares their bounty can eatch, so even if a greater percentage of otherwise legal sunfish species are thrown back when a LMB is caught, nevertheless, some sunfish species will be caught and consumed, if only out of necessity than preference. However, even if 50% of the sport fish caught and consumed were at Trophic Level 3, the statewide diet-weighted average combined T3 and T4 sport fish BAF would be reduced by 36% and the corresponding water quality target would be increased by 36%, which is not sufficient even to take into consideration seasonal variation, as required by CWA Section 303(d)(1)(C), let alone to adequately compensate for the compounded uncertainties in the mercury load-concentration relationship.

The Statewide Mercury Load Reduction Was Not Accurately Calculated

I used the freshwater lakes and streams large-bodied sport fish data obtained by FDEP in Appendix H http://www.dep.state.fl.us/water/tmdl/docs/tmdls/mercurv/merc-tmdl-appendix-h.pdf from the statewide, one-time mercury monitoring campaign to calculate the statewide descriptive statistics for the lake, stream, and combined waterbodies for the total mercury (THg) concentration in largemouth bass (LMB) fish flesh on a wet weight basis. The lake-specific and stream-specific averages for all LMB were calculated using all of the LMB collected in the study period, even if that included multiple samplings in the same season in the same year, the same season in different years, different seasons in the same year, and different seasons in different years. The seasonal variation in the LMB observed in waterbodies sampled in multiple season and its implications for the calculation of the statewide mercury TMDL, WLA, and point source WQBELs will be addressed in a separate formal public comment per subject.

I omitted sunfish species from the calculation of these statistics, because sunfish are smaller, faster-growing, and typically feed at trophic level three (T3), one trophic level lower than LMB (T4). That being the case, the average THg concentrations in sunfish species are almost always lower than the THg concentrations in LMB collected from the same waterbody at the same time. The inclusion of sunfish species would thus skew the fish concentration statistics low, as well as reduce the magnitude of the implicit margin of safety (M.O.S.) FDEP is claiming for its statewide mercury TMDL calculation, thereby undermining the credibility of the assertion of its adequacy. I will submit separate formal public comments on the deficiencies in the implicit statewide mercury TMDL M.O.S. per subject.

Based on the preceding data inclusion, exclusion, and analysis scheme, the statewide median THg concentrations in LMB on a wet weight basis in lakes, streams, and combined are, respectively, 0.34, 0.39, and 0.42 mg/Kg THg, while the corresponding 90th percentile values are, respectively, 0.74, 0.99, and 0.91 mg/Kg THg. Please confirm that the statewide 90th percentile LMB THg concentration value for all lakes and streams combined is 0.91 mg/Kg THg, not 0.74 mg/Kg THg used in the calculation of the required reduction in the controllable load allocation. Please make the needed corrections to the 90th percentile statewide LMB THg concentration and the corresponding revisions to the text prior to submitting the final draft Mercury TMDL for the State of Florida Report to USEPA Region 4 for review and comment.

One is also able to infer from this correction that the required statewide mercury loading rate reduction from the control of all in-state, in-nation, and global mercury air emissions sources of wet and dry atmospheric deposition to Florida waters must increase from 85% to 96% to attain and maintain the water quality target of 0.3 ppm THg in LMB flesh on a wet-weight basis in 90 percent of the freshwater waterbodies statewide. Please make the needed correction to the calculation of the required statewide mercury loading rate reduction of controllable air emissions sources and please make the corresponding revisions to the text wherever that erroneous value occurs or is used in a TMDL, LA, WLA, or WQBEL prior to submitting the final draft Mercury TMDL for the State of Florida Report to USEPA Region 4 for review and comment.

The unenforceable reduction in the loading rate of inorganic mercury wet and dry atmospheric deposition from all controllable in-state, U.S., continental, and global air emissions sources to attain the unenforceable water quality target of 0.3 ppm THg was calculated using an erroneous status quo reference value of 0.74 mg/Kg THg wet-weight as the 90th percentile concentration for all LMB in all the waterbodies surveyed in the one-time statewide mercury monitoring campaign, instead of the correct value of 0.91 mg/Kg THg wet-weight. If the statewide value for lakes and streams combined is used instead of the stream-specific value, greater than 10% of the streams will remain impaired after the target load reduction is effected. That being the case, it is more appropriate to use the 90th percentile value for streams, and when that is done, an impaired stream reference value of 0.99 mg/Kg THg wet-weight, which translates into a load reduction to achieve 0.3 mg/Kg wet-weight of 99%.

However, this is not an endorsement of the statewide approach to mercury TMDL development and implementation adopted by the State of Florida, where 1%, 5%, or 10% of Florida's lakes an drivers are sacrificed to administrative expediency. Nor is the margin of safety in the TMDL adequate to ensure that even those statistical targets will be hit. CWA Section 303(d)(1)(C) requires a waterbody-specific approach to attain the duly promulgated WQS. No waterbody shall be left behind in the process of developing or implementing a mercury TMDL at any scale. And no waterbody shall be delisted until all of its statewide and watershed-specific mercury source controls and best management practices have been implemented, the waterbody has had sufficient time to respond to the mercury load reduction, and follow-up monitoring demonstrates the long-term attainment and maintenance of mercury-unimpaired status. If state law requires otherwise, then the state law must be changed to comport with Federal law.

The Statewide Mercury TMDL-Related Load Allocation (LA) Was Not Properly Calculated

According to the USEPA regulations and technical guidance promulgated and published to implement CWA Section 303(d)(1)(C), the Load Allocation (LA) includes all uncontrollable nonpoint sources, both those over which nobody can exert control, e.g., natural background sources and sources from maninduced irretrievable conditions, e.g., abandoned mines and large-scale soil contamination in the watershed or large-scale sediment contamination in the waterbody, as well as sources originating outside of the jurisdiction of the United States of America, e.g., continental and global air emissions sources, and those within the jurisdiction of the U.S. but regulated under the authority of another statute, e.g., air emissions regulated by national technology-based and air quality-based standards promulgated under the Clean Air Act (CAA) in permits issued under the CAA. The CWA makes no provision for and claims no authority over nonpoint sources originating from air emissions sources regulated under the CAA, so the portion of the TMDL that is available for allocation to controllable point and nonpoint sources under the authority of the CWA is what remains after the combined loading rate contribution from all mercury sources outside the control of the CWA is subtracted from the TMDL with an adequate margin of safety. When the LA is recalculated to account for all nonpoint sources of mercury over which the CWA has no control, most Florida lakes and streams are over-allocated by the LA for mercury, that is the mercury TMDL - LA - M.O.S. < 0, and for all such waterbodies the mercury WLA = 0, so the point source Water Quality Based Effluent Limitation (WQBELs) based on that WLA are 0, not the surface water-equivalent target value. This translates into no detectable discharge for purposes of monitoring point source permit compliance under the state-delegated National Pollutant Discharge Elimination System (NPDES) authorized by CWA Section 402(b). The routinely achievable method detection limit (MDL) for the analytical method for ultra-trace total mercury (THg) used by FDEP is 0.1 ng/L. Using the FDEPapproved ultra-trace THg analysis method, the effective point source mercury WLA is 0.7 lbs/vr, not 8.8 lbs.

The THg Concentration in Water Equivalent to the Water Quality Target in Fish Flesh is Not Adequately Protective of Florida's Water Resources: No Waterbody Left Behind

The water quality-based effluent limitations (WQBELs) for all point sources to a waterbody for which fishable and swimmable uses are otherwise attainable are calculated based on the TMDL - LA - M.O.S on a waterbody-specife basis to attain and maintain the applicable numerical Water Quality Standard (WQS) with an acceptable magnitude, duration, and frequency of recurrence under appropriate conditions representing a seasonal minimum in the pollutant assimilative capacity to ensure the restoration and protection of its fishable and swimmable uses. There is no interpretation of the language of CWA Section 303(d)(1)(C) or the regulations or technical guidance promulgated or published to implement that provision that authorizes a statewide approach to pollutant TMDL development and implementation, even for a pollutant the predominant pathway for which is atmospheric deposition. However, if a statewide approach were to be taken, it would be unlawful to leave any pollutant -impaired waterbody impaired by any pollutant as a consequence of the way the statewide TMDL is calculated or implemented. The only lawful way to develop and implement a TMDL on a statewide basis would be to identify the waterbody in the state that has the greatest susceptibility to mercury-impairment, that is, the waterbody with the highest ratio of LMB THg as MeHg to the mercury species loading rates from all sources with a margin of safety in all of the assumptions that is considered adequate to protect a waterbody that was not studied but is more susceptible than the most susceptible waterbody studied. I refer to this as the no waterbody left behind philosophy and policy of the statewide approach. Unless and until that is done with an adequate margin of safety, the statewide approach is contrary to the letter and spirit of the CWA.

The Waste Load Allocation Was Not Properly Calculated

FDEP translated the unenforceable water quality target of 0.3 ppm THg as methylmercury in fish flesh on a wet weight basis into the equivalent target surface water concentration of THg in unfiltered surface water using the statewide $\underline{\text{median}}$ largemouth bass methylmercury bioaccumulation factor (2.67×10^6) and statewide $\underline{\text{median}}$ ratio of methylmercury to THg (0.093). The 90th percentile value (9.41×10^6) and 90th percentile ratio of methylmercury-to-total mercury (0.257) to take into consideration seasonal and statewide variation within and between water bodies and to provide a greater implicit margin of safety in the loading rate-concentration relationship. If the more protective approach is used, the state's 1.25 ng/L value is reduced by an order of magnitude. However, both values are above the routinely achievable method detection level claimed by FDEP's ultra-trace mercury analysis laboratory of 0.1 ng/L THg using USEPA-approved Method 1631 or a substantially equivalent method. When the LA > TMDL - MOS, the WLA = 0, and the default water quality-based effluent limitation (WQBEL) is no detectable concentration in the discharge using the most sensitive, USEPA-approved analytical method for THg in wastewater, Method 1631, not an unenforceable WQBEL based on attaining and maintaining a water concentration equivalent to the unenforceable water quality target.

The Waste Load Allocation Was Not Fairly and Equitably Distributed Between and Among States, Salt and Fresh Waters, and Point and Nonpoint Sources

The mercury TMDLs for inter-state water bodies were not fairly and equitably distributed between states prior to distributing Florida's far share of the remainder among controllable nonpoint sources and point sources. The mercury WLA was not fairly and equitably distributed between controllable nonpoint sources. e.g., land application of biosolids and point sources. The unenforceable reduction in the loading rate of inorganic mercury wet and dry atmospheric deposition from all controllable in-state, U.S., continental, and global air emissions sources to attain the unenforceable water quality target of 0.3 ppm THg assumes a linear relationship between the long-term average mercury deposition load and the long-term average methylmercury bioaccumulation in fish flesh, but the bioaccumulation values were based on a one-time, statewide monitoring campaign in fresh waters, so no long-term average values of LMB and

sunfish THg concentrations were obtained, and no effort was made to adjust those values to reflect and correct for observed inter-seasonal and inter-annual variation.

The One-Time, Statewide Mercury Monitoring Program Upon Which the Statewide Mercury TMDL Was Based Was Fatally Flawed in Design, Implementation, and Interpretation of Results

The one-time statewide mercury monitoring campaign was deficient in design, implementation, and analysis, integration, and synthesis of results. Among its many deficiencies:

- it omits all freshwater wetlands;
- it omits all brackish and salt water swamps, wetlands, lagoons, estuaries, and bays, in part
 because the method FDEP's laboratory uses for ultra-trace methylmercury analysis is no
 applicable to salt waters;
- it omits outstanding largemouth bass sport fisheries such as Lake Okeechobee and Lake Trafford:
- it cannot be demonstrated that the lakes and streams selected adequately span the relevant combinations of physical, chemical, and biological conditions and factors governing susceptibility to mercury impairment or the mercury load-methylmercury bioaccumulation relationship;
- it cannot be demonstrated that the number of lakes and streams sampled in each subcategory provides the required power and confidence levels to identify mercuryimpaired waters with acceptable probabilities of committing Type I and II errors, let alone the physical, chemical, and biological conditions and factors that govern the mercury load-concentration relationship;
- in all but twelve lakes, sampling only occurred once in one season;
- it omits sediment solids acid volatile sulfide (AVS) and/or chromate reducible sulfide (CRS), both of which quantify the trace metal sulfides that are known or have been inferred to influence inorganic mercury bioavailability to methylating bacteria;
- it omits the sediment pore water compartment altogether, which is the only compartment
 in which the parabolic relationship between sulfate, sulfide, and methylmercury
 production is expected to be observed;
- none of the largemouth bass (LMB) were analyzed for methylmercury to validate FDEP's claim that the assumption that all THg is methylmercury in LMB flesh provides an adequate margin of safety;
- 49% of the sediment data were below the method detection limit of the FDEP's ultratrace methylmercury analytical method, which has not been approved by USEPA for water, sediment, or fish as substantially equivalent to USEPA-published Method 1630.

The Ultra-Trace Methylmercury Analytical Method Used by FDEP for One-Time, Statewide Mercury Monitoring Campaign is Not Substantially Equivalent to USEPA Method 1630

USEPA Method 1630 is not published for compliance application in the Clean Water Act Section 402 NPDES permit program. That being the case, a regulatory agency cannot establish or enforce water quality-based effluent limits for methylmercury. However, Method 1630 is listed by USEPA as appropriate for other Clean Water Act applications. Such applications include mercury TMDL development under Clean Water Act Section 303(d)(1)(C). Using the example of Florida's statewide mercury TMDL development process, FDEP first calculates a largemouth bass-to-surface water ratio or bioaccumulation factor (BMF) for each water body and an unfiltered methylemercury-to-unfiltered total mercury (THg) ratio in water for each water body, and then uses the median values for both to back-calculate a statewide median THg concentration in unfiltered surface water equivalent to the 0.3 ppm THg as methylmercury in fish flesh on a wet-weight basis. In developing waterbody-specific mercury TMDLs

for the State of Georgia, Mississippi, and North Carolina, USEPA Region 4 used Method 1630 to obtain the required waterbody-specific methylmercury-to-THg ratios. The waste load allocations (WLAs) deriving from the TMDL are enforceable as water quality-based effluent limitations (WQBELs) in NPDES permits and those WQBELs enforceable using USEPA-approved Method 1631. A methylmercury analytical method that is not demonstrably substantially equivalent to USEPA Method 1630 would open a legal point of entry for a third-party challenge to a water body-specific or statewide mercury TMDL and any mercury WLA/WQBELs deriving therefrom. In addition to the preceding application, FDEP is claiming that the ample margin of safety in the statewide mercury TMDL includes the assumption that all of the THg in largemouth bass flesh is methylmercury, when it is not. In fact, it is common knowledge that > 95% of the THg is methylmercury in legal-sized, top-predator fish in general and in largemouth bass from Florida waters in specific. That would not constitute an ample margin of safety to offset the compounded uncertainties in the mercury loading rate-methylmercury concentration relationship in surface water. I believe FDEP has data in its possession that supports this common knowledge. Nevertheless, to demonstrate an ample margin of safety based on this assumption, FDEP must be capable of analyzing methylmercury in fish flesh in archived fish samples using a valid analytical method substantially equivalent to USEPA Method 1630.

The Statistical Water Quality Model Was Not Used In the Development of Implementation of the Statewide Mercury TMDL, Because the Model Failed

The so-called mercury water quality model, which is nothing more than a multivariate regression analysis of the log-transformed water, sediment, and fish data obtained in the one-time, statewide mercury monitoring campaign, combined with earlier data collected by FWC's Ted Lange, is the product of subjective professional judgment, not an unbiased, systematic statistical analysis, because it includes further transformations or nomalizations of some data but not others in order to linearly approximate inherently non-linear relationships, e.g., the sulfate-methylmercury relationship, or improve the linearity of the presumed relationships, e.g., the use of a Monod transformation of pH, in carrying out the multivariate linear regression analysis. Despite the best efforts of the analyst to obtain an adequate fit between the dependent variable, the concentration of THg as methylmercury in LMB flesh and various potentially influential independent water quality variables through these subjective transformations, the model failed, because known influences did not emerge, such as the influence of sulfate on the rate at which sulfate-reducing bacteria methylate the bioavailable fraction of inorganic mercury up to the point of sulfide inhibition of the methylation rate, probably via complexation. This is understandable, because the relationship between sulfate concentration and the methylation rate is parabolic, not linear, and it is only detectable in sediment pore water, not the overlying water column. However, had FDEP collected the requisite samples of pore water from the lakes it sampled, the difference between surface water and pore water sulfate concentrations could be used to infer the metabolic rate of sulfate reducing bacteria with which to evaluate its relationship to various water quality parameters governing inorganic mercury bioavailability, including theeffect of the daily redox cycle on the formation and dissolution of iron and manganese sulfides and polyslufides in the surficial sediment layer where methylation is occuring.

The Mechanistic Mercury Water Quality Models Available to FDEP Were Not Used for the Development of the Statewide Mercury TMDL

FDEP has had at its disposal since the late 1990s a mercury transport-fate model developed by USEPA's Office of Research and Development based on a modification of the GLEAMS model that is applicable to small watersheds and could have been used to evaluate the watershed runoff contributions of mercury to the receiving water from fertilized farmlands and biosolids application sites. FDEP has at its disposal since 2003, E-MCM(II), a mercury model capable of modeling methylmercury production and bioaccumulation in lakes, streams, and wetlands, as evidenced by the publication of the results of the application of a less sophisticated version, E-MCM(I), to quantify the mercury load-methylmercury

bioaccumulation relationship in Water Conservation Arca-3A in the Everglades Mercury TMDL Pilot Study: http://water.epa.gov/lawsregs/lawsguidance/ewa/tmdl/everglades_fs.cfm

Key Findings

The Mercury TMDL for the State of Florida Report to USEPA Region 4 that embodies the statewide approach to the development and implementation of a mercury TMDL, Waste Load Allocation, and wastewater points source Water Quality-Based Effluent Limitations:

- -- sacrifices the most mercury-susceptible waterbodies as an administrative expedient, when the CWA Section 303(d)(1)(C) makes no such provision and requires that no waterbody be left behind in attianment of mercury-unimpaired status
- -- fails to include a Florida-specific water quality target derived following USEPA guidelines, because the Florida women of childbearing age of median weight consuming salt water fish and shellfish at median rates with median concentrations of methylmercury are already over-exposed to methylmercury in excess of the USEPA reference dose to protect the developing fetus from cognitive impairment, so the allowable methylmercry concentration in freshwater fish is 0
- -- fails to mention, let alone adequately consider seasonal variation in water quality in the derivation and implementation of the statewide mercury TMDL, when FDEP's own data demonstrate seasonal variation -- claims an adequate margin of safety in the derivation and implementation of USEPA's methylmercury reference dose that disappear with the realization that USEPA calculated the reference dose assuming a 1:1 relationship between the blood of the fetus and the mother, when the actual value is closer to 1.7:1 according to USEPA's Kate Mahaffey
- -- omits significant natural background sources of mercury species over which FDEP can exert no regulatory control under the CWA that must be included in the load allocation, i.e., groundwater discharge to seepage lakes
- -- improperly assumes that others will reduce the nonpoint mercury source contribution to the mercury load allocation (LA) from air emissions sources over which it has no regulatory control under the CWA -- when the load allocation is recalculated, the TMDL LA M.O.S. < 0, so the WLA = 0, and the water quality-based effluent limitations (WQBELs) deriving thereform are 0 and the effluent limitation equivalent to 0 is no detectable discharge using the most sensitive USEPA-approved analytical method promulgated for that purpose, i.e., Method 1631, not the THg concentration in water equivalent to the unenforceable mercury water quality target of 0.3 ppm in fish flesh
- -- omits significant sources of mercury over which it can exert regulatory control under the CWA, i.e., land-applied biosolids
- -- incorrectly calculates the mercury load reduction required to achieve the water quality target-equivalent surface water concentration
- -- fails to fairly and equitably distribute the mercury assimilative capacities of shared surface waters with other states
- -- fails to consider the impacts of the proposed administrative action on subsistence fishers protected by the environmental justice provisions of applicable statutes and Presidential Executive Orders
- -- fails to demonstrate adequate protection of fish-eating wildlife and their predators in general and highly-exposed, threatened, endangered, and migratory species in particular, and
- -- improperly allocates all of the unused mercury assimilative capacity to wastewater point sources; -assumes that the statewide mercury TMDL is controlled by its in-land lakes and streams, when Florida's estuaries, lagoons, and bays are demonstrably more susceptible to mercury impairment under the same wet and dry mercury atmospheric deposition loads impacting its tributaries, as evidenced by Florida Bay; -- adopts the mutually exclusive assumptions that lakes, streams, lagoons, estuaries, and bays will rapidly recover in response to mercury source reduction, because biogeochemical dynamics and kinetics favor the methylation of new inorganic mercury in atmospheric deposition over the old inorganic mercury in
- methylation of new inorganic mercury in atmospheric deposition over the old inorganic mercury in sediments, while assuming at the same time that all lakes and streams have reached a steady-state relationship between the long-term average wet and dry mercury deposition flux and the methylmercury

concentration in slow-growing, large-bodies, long-lived, top-predator sport fish represented by the prized largemouth bass (LMB), which is assumed to conveniently integrate out all of the seasonal variation in mercury species loading, transport, transformation, and bioaccumulation rates governed by the seasonal variation in biogeochemical dynamics and kinetics, such that sampling any lake or stream at any time of the year will conveniently yield the same mercury load-methylmercury bioaccumulation result; and -- FDEP's own data contradict the steady-state assumption, as evidenced by the observed significant seasonal variation in the small subset of lakes that had to be resampled to fill their LMB quotas, so it follows that all lakes and streams have not reached a steady-state relationship between the long-term average wet and dry deposition mercury loading rate and the average methlymercury concentration in LMB flesh, so the seasonal variation in water quality and its influences on mercury species transport, disposition, transformation, bioavailability, and bioaccumulation cannot be ignored, and only long-term seasonal sampling of water, sediment, and fish can yield an appropriate load-concentration relationship for mercury TMDL development and implementation at every scale from water body-specific to statewide.

These are fatal flaws in the development and implementation of the statewide approach to the Florida mercury TMDL that must be corrected prior to submittal of the Revised Draft Hg TMDL Report to USEPA Region 4 for review and comment.

Key Recommendations

- -- Obtain the background dose rate probability distribution function for women of child-bearing age from the consumption of fresh, frozen, and canned saltwater fish species using the probabilistic approach but now including the lognormal concentration distributions rather than average values of the concentrations of THg as MeHg by fish species.
- -- Promulgate an enforceable, revised mercury WQS for total mercury as methylmercury in fish flesh on a wet-weight basis in this triennial review cycle that is adequately protective of the health of a typical subsistence consumer of salt and freshwater fish to replace the existing numerical Class III WQS of 12 ng/L total mercury in unfiltered water, which FDEP acknowledges is not adequately protective of human health.
- -- Promulgate a revised mercury WQS for total mercury as methylmercury in while fish on a wet-weight basis that is adequately protective of fish- and shellfish-eating wildlife species, including threatened species such as the bald eagle and endangered species such as the wood stork, the Everglades mink, and the Florida panther.
- -- Develop an enforceable statewide mercury TMDL based on the more protective of the enforceable human health or wildlife WQS.
- -- Properly recalculate the Load Allocation by accounting for the daily mass contribution rates from all mercury source categories outside of CWA control, including all in-state, out-of-state, continental, and global mercury air emissions sources and groundwater inflow under seasonally appropriate low-stage conditions.
- -- Properly account for the mercury loading rates to waterbodies in watersheds in which one of the land uses is land-application of biosolids.
- -- Allocate what remains of the unused mercury assimilative capacity between point and controllable nonpoint sources under the CWA, including the deposition of wind-eroded particles, leaching to the underlying surficial aquifer with subsequent inflow to the waterbody, and stormwater runoff in excess of the permit-mandated stormwater storage capacity to the waterbody.
- -- If the TMDL-LA-MOS < 0, the WLA is 0 for all point sources and controllable nonpoint sources and set the point source water quality-based effluent limitations (WQBELs) to 0, which translates into no detectable discharge using USEPA Method 1631 or a method substantially equivalent to USEPA Method 1631.

- -- If the $WLA \le 0$, impose a moratorium on the land-application of biosolids contaminated above Florida soil background levels.
- -- During the biosolids land application moratorium, conduct an intensive study of a representative set of decommissioned and active biosolids land application sites in a representative set of watersheds containing a representative set of mercury-impaired and mercury-unimpaired streams and lakes, quantify the absolute and relative contributions of the aerosol, evasion, leachate, and runoff pathways to the seasonally appropriate mercury loading rates of a representative set of seepage and drainage lakes and streams using appropriate models, and back-calculate maximum allowable mercury concentrations in the biosolids from the unused mercury assimilative capacities of these representative lakes.
- -- Use the statewide mercury LA as leverage with CAA programs to reduce mercury air emissions from sources over which the CAA has control to free up some of the over-allocated mercury assimilative capacity of the majority of Florida's fresh and salt waterbodies for the point and nonpoint sources over which the CWA has control.
- -- Include a factor of 2 in the margin of safety in the statewide mercury TMDL to compensate for within water-body one-time sampling error of the representative long-lived, large-bodied freshwater sport fish, the largemouth bass.
- -- Include another factor of 2 in the margin of safety in the statewide mercury TMDL to compensate for seasonal variation within waterbodies.
- -- Include another factor of 2 in the margin of safety in the statewide mercury TMDL to compensate for variation between fresh waterbodies.
- -- Include a factor of 3 as a margin of safety to ensure the protection of freshwater wetlands and salt waters omitted from the statewide mercury TMDL that are more mercury susceptible than the lakes and stream included in the one-time mercury monitoring campaign.
- -- Rather than delisting mercury-impaired waterbodies upon completion of the statewide mercury TMDL, provide for follow-up mercury monitoring of a representative set of freshwater wetlands, lakes, and streams and brackish and salt water wetlands, lagoons, estuaries, and bays.
- -- Calculate the required mercury load reduction to restore 95% of the states fresh waters with an adequate margin of safety for the inherently more uncertain statewide approach.

Thank you for this opportunity to review and comment on this most important administrative action or lack thereof.

Sincerely,

Larry E. Fink, M.S. Waterwise Consulting, LLC 1601 S. Ocean Drive Suite 406 Hollywood, FL 33019-2405 (954) 923-7374 (O) 954-226-9663 (C)

Exhibit A

The Clean Water Act

http://www.epa.gov/oecaagct/lcwa.html

The TMDL Provision of the Federal Clean Water Act

"Section 303(d)(1)(C): Each State shall establish for the waters identified in paragraph (l)(A) of this subsection, and in accordance with the priority ranking, the total maximum daily load, for those pollutants which the Administrator identifies under section 304(a)(2) as suitable for such calculation. Such load shall be established at a level necessary to implement the applicable water quality standards with seasonal variations and a margin of safety which takes into account any lack of knowledge concerning the relationship between effluent limitations and water quality."

http://water.epa.gov/lawsregs/guidance/303.cfm

Exhibit B

TMDL Regulations and Technical Guidance

General:

http://ecfr.gpoaccess.gov/cgi/t/text/text-

idx?c=ecfr&sid=68611527d82e2def115ba1a29e84efca&tpl=/ecfrbrowse/Title40/40cfr130 main 02.tpl

http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/index.cfm

Mercury:

http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/mercury.cfm

1237

Exhibit C

USEPA Water Quality Criteria Document for Methylmercury in Fish Flesh to Protect Human Health http://water.epa.gov/scitech/swguidance/standards/criteria/aqlife/pollutants/methylmercury/index.cfm

1238

Exhibit D

http://nepis.epa.gov/Adobe/PDF/P1003RPA.pdf

Guidance for Implementing the January 2001 Methylmercury Water Quality Criterion

Final

United States Environmental Protection Agency
Office of Science and Technology (4305T)
1200 Pennsylvania Ave., NW
Washington, DC 20460
EPA-823-R-09-002
www.epa.gov/waterscience
January 2009

Exhibit E

USEPA-Approved Analytical Methods for Use In Implementing Clean Water Act Regulatory Programs at 40 CFR 136

http://water.epa.gov/scitech/methods/cwa/

Method 1631: Ultra-Trace Mercury Analysis in Water, Sediment, and Fish http://water.epa.gov/scitech/methods/ewa/metals/mercury/index.cfm

Other CWA Methods of Interest not Currently Approved for use at 40 CFR 136

Method 1630: Ultra-Trace Methylmercury Analysis in Water, Sediment, and Fish

http://water.epa.gov/scitech/methods/cwa/metals/mercury/upload/2007_07_10_methods_method_mercury_1630.pdf

Exhibit F

Revised Draft Mercury TMDL for the State of Florida Report to USEPA Region 4, published on July 6, 2012. http://www.dep.state.fl.us/water/tmdl/merctmdl.htm

1241

Exhibit G

The References in the <u>Revised Draft Mercury TMDL for the State of Florida Report to USEPA Region 4</u>, <u>published on July 6, 2012. http://www.dep.state.fl.us/water/tmdl/merctmdl.htm</u>

1242

Exhibit H

Appendix H of the <u>Revised Draft Mercury TMDL for the State of Florida Report to USEPA Region 4, published on July 6, 2012</u>

 $\underline{http://www.dep.state.fl.us/water/tmdl/docs/tmdls/mercury/merc-tmdl-appendix-h.pdf}$

Exhibit I

Impaired waters

http://www.dep.state.fl.us/legal/rules/shared/62-303/62-303.pdf

62-303.470 Fish and Shellfish Consumption Use Support.

- (1) In order to be used under this part, the Department shall review the data used by the DOH as the basis for fish consumption advisories and determine whether it meets the following requirements:
- (a) The advisory is based on the statistical evaluation of fish tissue data from at least twelve fish collected from the specific water segment or water body to be listed,
- (b) The data are collected in accordance with DEP SOP FS6000 (General Biological Tissue Sampling) and FS 6200 (Finfish Tissue Sampling), which are incorporated by reference, the sampling entity has established Data Quality Objectives (DQOs) for the sampling, and the data meet the DQOs, and
- (c) There are sufficient data or other information from within the last 7.5 years that would support the continuation of the advisory. The Department shall document any decision to list waters with advisories older than 7.5 years, including the data supporting the continuation of the advisory or information demonstrating that older data are representative of current conditions.
- (2) Waters with advisories determined to meet the requirements of this section or waters where scientifically credible and compelling information meeting the requirements of Chapter 62-160, F.A.C., indicates the applicable human health-based water quality criteria are not met shall be listed on the verified list. Any determinations to list waters based on this provision shall be documented, and the documentation shall include the basis for the decision.
- (3) Class II waters shall be included on the verified list for coliform impairment if, following review of the available data as described in subsection 62-303.460(2), F.A.C.
- (a) The number of samples above 43 counts per 100 ml meet the requirement in subsection 62-303.420(6), F.A.C., with the exception that paragraph 62-303.320(4)(a), F.A.C., does not apply and samples collected on different days within any four day period will be assessed as daily samples,or
- (b) The water segment includes a sampling location that has a median fecal coliform MPN value that exceeds 14 counts per 100 ml for the verified period. To calculate a median value for a sampling location, there shall be at least 20 samples collected during the verified period.
- (4) Waters that qualify for placement on the planning list based on shellfish harvesting classification information shall be verified as impaired for fecal coliforms. Specific Authority 403.061, 403.067 FS. Law Implemented 403.062, 403.067 FS. History–New 6-10-02, Amended 12-11-06, 9-4-07.

62-303.500 Prioritization.

- (1) When establishing the TMDL development schedule for water segments on the verified list of impaired waters, the Department shall prioritize impaired water segments according to the severity of the impairment and the designated uses of the segment, taking into account the most serious water quality problems; most valuable and threatened resources; and risk to human health and aquatic life. Impaired waters shall be prioritized as high, medium, or low priority.
- (2) The following waters shall be designated high priority:
- (a) Water segments where the impairment poses a threat to potable water supplies or to human health.
- (b) Water segments where the impairment is due to a pollutant regulated by the CWA and the pollutant has contributed to the decline or extirpation of a federally listed threatened or endangered species, as indicated in the Federal Register listing the species.
- (3) The following waters shall be designated low priority:

- (a) water segments that are listed before 2010 due to fish consumption advisories for mercury (due to the current insufficient understanding of mercury cycling in the environment).
- (b) Man-made canals, urban drainage ditches, and other artificial water segments that are listed only due to exceedances of the dissolved oxygen criteria.
- (c) Water segments that were not on a planning list of impaired waters, but which were identified as impaired during the second phase of the watershed management approach and were included in the verified list, unless the segment meets the criteria in paragraph (2) for high priority.
- (4) All segments not designated high or low priority shall be medium priority and shall be prioritized based on the following factors:
- (a) The presence of Outstanding Florida Waters.
- (b) The presence of water segments that fail to meet more than one designated use.
- (c) The presence of water segments with greater than twenty-five percent of the samples not meeting an applicable water quality criterion or alternative threshold with a minimum of a 90 percent confidence level.
- (d) The presence of water segments that exceed more than one applicable water quality criteria.
- (e) Administrative needs of the TMDL program, including meeting a TMDL development schedule agreed to with EPA, basin priorities related to following the Department's watershed management approach, and the number of administratively continued permits in the basin. Specific Authority 403.061, 403.067 FS. Law Implemented 403.062, 403.067 FS. History New 6-10-02, Amended 12-11-06.

62-303.720 Delisting Procedure.

- (1) Waters on planning lists developed under this chapter that are verified to not be impaired during development of the verified list shall be removed from the State's planning list. Once a water segment is verified to not be impaired pursuant to Part III of this chapter, the data used to place the water on the planning list shall not be the sole basis for listing that water segment on future planning lists.
- (2) Water segments shall be removed from the State's verified list only after completion of a TMDL for all pollutants causing impairment of the segment or upon demonstration that the water meets the water quality standard that was previously established as not being met.
- (a) For waters listed due to failure to meet aquatic life use support based on water quality criteria or due to threats to human health based on single sample water quality criteria, the water shall be delisted when:
- 1. The number of samples that do not meet an applicable water quality criterion due to pollutant discharges is less than or equal to the number listed in Table 4 for the given sample size, with a minimum sample size of 30. Waters shall be delisted when 10% or less of the samples do not meet the applicable criterion with a minimum of a 90% confidence level using a binomial distribution, or
- 2. Following implementation of pollution control activities that are expected to be sufficient to result in attainment of applicable water quality standards, evaluation of new data indicates the water no longer meets the criteria for listing established in Rule 62-303.420, F.A.C., or
- 3. Following demonstration that the water was inappropriately listed due to flaws in the original analysis, evaluation of available data indicates the water does not meet the criteria for listing established in Rule 62-303.420, F.A.C. New data evaluated under subparagraph 62-
- 303.720(2)(a)1., F.A.C., must meet the following requirements:
- a. They must include samples collected during similar conditions (same seasons and general flow conditions) that the data previously used to determine impairment were collected, with no more than 50% of the samples collected in any one quarter.
- b. The sample size must be a minimum of 30 samples, and
- c. The data must meet the requirements of subsections 62-303,320(4), (6) and (7),

F.A.C.

- (b) For waters listed due to failure to meet aquatic life use support based on biological data, the water shall be delisted when the segment passes two independent follow-up bioassessments and there have been no failed bioassessments for at least one year. The follow-up tests must meet the following requirements:
- 1. For streams, the new data may be two BioRecons or any combination of BioRecons and SCIs.
- 2. The bioassessments must be conducted during similar conditions (same seasons and general flow conditions) under which the previous bioassessments used to determine impairment were collected
- 3. The data must meet the requirements of subsections 62-303.330(1) and (2), F.A.C.
- (c) For waters listed due to fish consumption advisories, the water shall be delisted following the lifting of the advisory or when data complying with paragraphs 62-303.470(1)(a) and
- (b), F.A.C., demonstrate that the continuation of the advisory is no longer appropriate.
- (d) For waters listed due to their shellfish bed management classification, the water shall be delisted upon reclassification of the shellfish harvesting area to approved, or for conditionally approved areas, when the only source identified by SEAS for the harvesting area is wildlife.
- (e) For waters listed due to bathing area closure or advisory data, the water shall be delisted if the bathing area does not meet the listing thresholds in subsection 62-303.360(1), F.A.C., for five consecutive years.
- (f) For waters listed based on impacts to potable water supplies, the water shall be delisted when applicable water quality criteria are met as defined in paragraph 62-303.380(1)(a), F.A.C., and when the causes resulting in higher treatment costs have been ameliorated.
- (g) For waters listed pursuant to paragraph 62-303.460(3)(b), 62-303.470(3)(b), or 62-303.480(3)(b), F.A.C., the water shall be delisted when:
- 1. The criteria applicable to those sections are met for three consecutive years and there are sufficient new data available to calculate monthly values for at least the same seasons in which the exceedances occurred, or
- Following a demonstration that the water was inappropriately listed due to flaws in the original analysis, including the use of a non-representative sample set.
- (h) For waters listed pursuant to paragraph 62-303.460(3)(a), 62-303.470(3)(a), or 62-303.480 (3)(a), F.A.C., the water shall be delisted upon meeting the delisting provisions in paragraph 62-303.720(2)(a), F.A.C.
- (i) For waters listed based on a human health-based annual average criterion, the water shall be delisted when the annual average concentration is less than the criterion for three consecutive years.
- (j) For waters listed based on nutrient impairment, the water shall be delisted if it does not meet the listing thresholds in Rule 62-303.450, F.A.C., for three consecutive years.
- (k) For any listed water, the water shall be delisted if, following a change in approved analytical procedures, criteria, or water quality standards, evaluation of available data indicates the water no longer meets the applicable criteria for listing.
- (1) For waters listed based on paragraph 62-303.420(7)(b) or subsection 62-303.470(3),
- F.A.C., the water shall be delisted if the Department determines the water is no longer impaired, based on scientifically credible and compelling information comparable in quantity and quality to the information used to make the initial listing decision. Any determinations to delist waters based on this provision shall be documented, and the documentation shall include the basis for the decision.
- (m) For waters listed pursuant to paragraph 62-303.320(6)(b), F.A.C., the water shall be delisted when the applicable criteria are met for at least three consecutive years and there are new data available for the same seasons in which the previous exceedances occurred.
- (3) Any delisting of waters from the verified list shall be approved by order of

the Secretary at such time as the requirements of this section are met. Specific Authority 403.061, 403.067 FS. Law Implemented 403.062, 403.067 FS. History–New 6-10-02, Amended 12-11-06, 9-4-07.

Attachment IV

INTERIM June 2003

CENTRAL AND SOUTHERN FLORIDA PROJECT COMPREHENSIVE EVERGLADES RESTORATION PLAN G.1 – WATER QUALITY MODELING G.1.1 – RESERVOIR PHOSPHOROUS UPTAKE MODEL EVERGLADES AGRICULTURAL AREA

US Army Corps of Engineers South Florida Water Jacksonville District Management District

STORAGE RESERVOIRS - PHASE 1

Assisted By:

(SFWMD Consultant Task 2.1.1)

http://www.evergladesplan.org/pm/projects/project_docs/pdp_08_eaa_store/060103_pdp_08_reservoir_p hosphorous_model.pdf

Reservoir Phosphorous Uptake Model EAA Storage Reservoirs-Phase 1 -4- June 2003

G.1.1.3.1 DMSTA

DMSTA Overview

DMSTA is currently being used to support the evaluation of STAs, as part of the Everglades Construction Project (ECP) Basin-Specific Feasibility Studies. DMSTA provides a framework for integrating experimental and field-scale monitoring data for designing the next generation STAs. The phosphorous removal performance of the STAs has also been evaluated with DMSTA. This model was prepared by William Walker and Robert Kadlec for the U.S. Department of Interior (Walker and Kadlec 2002). The DMSTA model has been prepared to provide a single platform for estimating the performance of a variety of treatment wetland options, including wetlands dominated by emergent macrophytes (classic STA), submerged aquatic vegetation (SAV), and periphytic algae (PSTA). This model provides an extremely flexible set of options for parameter selection, water balance issues, water flows, and internal hydraulics, and cell configurations.

DMSTA Formulation

DMSTA simulates daily water and mass balances in a user-defined series of wetland treatment cells, each with specified morphometry, hydraulics, and phosphorus cycling parameters. Up to six treatment cells can be linked in series and/or parallel to reflect compartmentalization and management to promote specific vegetation types. Each cell is further divided into a series of continuous stirred tank reactors (CSTR's) to reflect residence time distribution. Water-Balance terms for each cell include inflow, bypass, rainfall, evapo-transpiration, outflow, seepage in, and seepage out. Parameter estimates for the phosphorus cycling model have been developed for various vegetation types. The model is coded in Visual Basic for applications; the user interface is an Excel workbook. The DMSTA phosphorus cycling model contains three parameters that require calibration to each vegetation type. Two parameters (C0, C1) define the effective concentration range and scale of biomass phosphorus (P) storage. These are calibrated using biomass P and water column P data from several systems. Another key parameter (Ks) reflects the turnover rate of biomass P. Turnover rate is calibrated to outflow concentration time series data.

DMSTA Required Input Parameters

A list of the DMSTA model input data requirements includes the following: Morphometry (Length, Width, Area, Cell Configuration) Hydraulic Efficiency (Number of Stirred Tanks in Series) Daily Time Series:

- o Inflow and Outflow Volume
- Inflow and Outflow Concentration

- Mean Depth
- Rainfall
- Evapotranspiration

Descriptive Data:

- Seepage Rates
- o Community Description
- o P Storage (metadata: macrophytes, periphyton, soil)

Daily time series data used for model calibration include:

- Outflow Volume
- Depth
- Velocity
- Inflow Concentration (flow-weighted, un-weighted)
- Outflow Load (using observed or predicted flows)

DMSTA Capabilities

The DMSTA can simulate the phosphorus load reduction of wetland systems. DMSTA can be used to model flows and phosphorus through existing and modified STAs. DMSTA can also be used to route flows through flow equalization basins and other components associated with chemical treatment facilities. The DMSTA model offers the following factors that are not included in a steady-state STA design model:

- Temporal Variations in Inflow Volume, Load, Rainfall, and ET
- Hydraulic Compartments (Cells, Internal Levees for Flow Redistribution)
- Hydraulic Efficiency (Number of Stirred Tanks in Series)
- Cell Aspect Ratio (Length/Width)
- Water Level Regulation
- Outflow Regulation (Discharge vs. Water Level)
- Compartmentalization of Biological Communities
- Dry-Out Frequency and Supplemental Water Needs
- Bypass Frequency, Quantity, and Quality
- Seepage Collection and Management

DMSTA Limitations

The following are some know limitations of the DMSTA model:

- DMSTA lacks level of detail in modeling reservoir hydrology.
- One important limitation of the DMSTA model is that certain SAV types that may have relatively low uptake rates (such as hydrilla) are not represented in the data sets. Therefore, they cannot be represented properly with DMSTA.
- The model is bound by the limitations of the available datasets (e.g., spatial scale, duration, and/or relatively steady inflows), so, for example, it cannot currently model reservoir performance
- DMSTA has not been calibrated for deep-level pools as those associated with
- reservoirs.
- DMSTA can only model phosphorus removal by a generalized (lumped) process

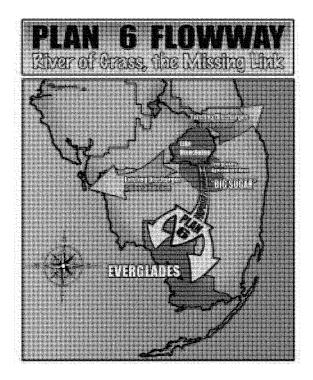
of transfer from a labile pool to a refractory pool. It cannot model phosphorus removal by the individual processes of particle settling, biological uptake and net refractory biomass storage, or chemical precipitation as a function of pH, alkalinity, redox, or temperature. It cannot model release of labile phosphorus from the sediment back to the water column as a function of wind, flow, depth, redox, or temperature.

- Although the model can be run on a daily time step, the empirically derived coefficients are long-term annual average values.
- It systematically overestimates the TP removal efficiency and underestimates the TP outflow concentrations in the low TP concentration range (< 50 ppb), e.g., STA-2.

DMSTA Developer/Distributor

William Walker Department of Interior

Executive Summary



New and Broader Plan 6 Flowway

Overview of an expansive Plan Six Missing Link Flowway that incorporates the flowway as first described by the U.S. Army Corps of Engineers, the acquisition of limited agricultural property and inclusion of some projects outlined in the Central Everglades Planning Project.

- Rivers Coalition Defense Fund, 2013

JUST WHAT IS PLAN 6?

Facing sieges of disastrous discharges from inland, the St. Lucie river estuary, as well as the Caloosahatchee river to the west, must gain emergency measures to stem the releases permanently.

This "New and Broader Plan 6 Flowway" program would simply create a vitally needed flowpath to let water move south from Lake Okeechobee to the Everglades instead of to the coastal estuaries.

A broadened approach includes acquisition of about 50,000 acres of the 700,000 acres in the Everglades Agricultural Area (7%). The new acreage would be tied into lands already in public hands to form the overall Plan 6 flowway.

WHAT ABOUT OTHER PLANS?

The new Plan 6 program also would embrace the most helpful features in the Central Everglades Planning Project (CEPP), recognizing, however, that the CEPP changes by themselves will reduce discharges by no more than 14%. A much greater reduction is necessary if estuary life and benefits are to be brought back.

The Rivers Coalition Defense Fund concludes that the broader Plan 6 Missing Link Flowway would be simpler, faster and less expensive than alternatives.

It should be emphasized that two-thirds of the Plan 6 path is already in public hands.

The remaining one-third is potentially available under a state option to purchase lands from the U.S. Sugar Corp. or other sources.

Although present state officials have not pursued the sugar purchase, it had been strongly supported by the previous state administration and South Florida Water Management District. Funding was found to be practical via restructured bonding. Potential benefits were judged to be far greater than costs.

The Water Management District's website includes this 2008 statement regarding the purchase:

"Acquiring the enormous expanse of real estate offers water managers the opportunity and flexibility to store and clean water on a scale never before contemplated to protect Florida's coastal estuaries and to better revive, restore and preserve the fabled River of Grass."

A majority of other public and non-government entities also supported the purchase, which drew international favorable attention. Political changes and the economic recession, however, led to setting aside the Missing Link purchase, while preserving an option to buy that extends to 2020.

The Defense Fund finds that the option, or similar acquisition, must be implemented in order to provide a meaningful solution to the estuary and Everglades drainage woes that

beset us. It is now up to the Water Management District, coordinating with other state officials, to execute the purchase and flowway.

Continuing damages to our eco-system, to our quality of life and to our economy are far too severe to accept do-little measures or distractions that only preserve the destructive status quo.

WHO OPPOSES PLAN 6?

Resistance to the flowway comes basically from industry lobbyists and allied political forces, who make two main claims.

One is that a series of aquifer storage and recovery (ASR) wells proposed for locations around Lake Okeechobee could drain, store and supply water, negating the need for the flowpath south.

The deep-well technology is highly controversial, however. Many scientists contend that the wells would handle only a tiny fraction of the water involved and that they would be subject to dangerous exposures of pollution such as arsenic.

Moreover, the wells would preclude vitally needed re-hydration and re-creation of historic wetlands.

Costs estimates for ASR run to \$1.8 billion, whereas Plan 6 outlays are estimated to be less than half of that.

The state of Georgia has banned ASR injections into the same Floridan Aquifer present in Florida. A wealth of information about ASR is readily available via web search engines.

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A second claim against the flowway concept is that the natural downward slope through the agricultural area has been disrupted by loss of soil, causing a supposed blockage of potential flow.

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WILL PLAN 6 REALLY STOP THE NASTY WATER?

Plan 6 can do more than any other program to curtail the discharges and restore wetlands. It was originated by the Corps itself and is supported by a host of veteran engineers and conservationists.

The public must demand real action for a new and broader Plan 6 Flowway, as well as support any other potential remedies.

For more information see the Plan 6 Concept report at RiversCoalition.org, the Florida Oceanographic Society and other sources.

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Yes, it's complex and there are numerous players. In the end, all of us must demand the flowway and drainage reforms.

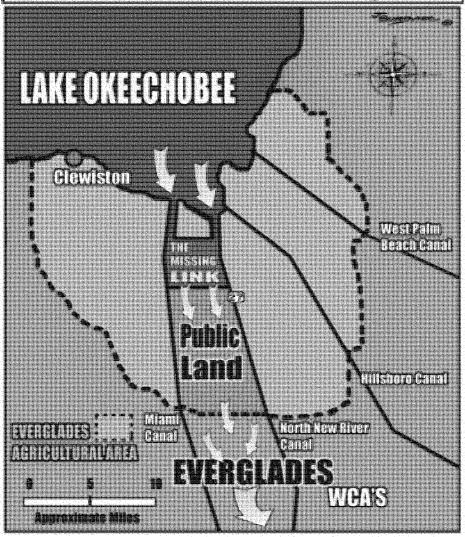
10 Key Points

PLAN 6 FLOWWAY

River of Grass, the Missing Link

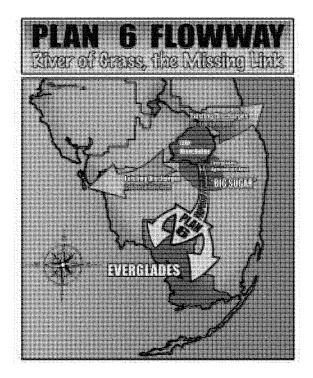
- Stops polluted discharges from Lake O to estuaries
- Needs just 15% of "Big Sugar" fields
- Simpler and cheaper than current plans
- · Brings back estuary wildlife and plant life
- Restores crucial natural sheetflow to Everglades
- Stops pathogens dangerous to humans and others
- Reduces risk of Lake O Hoover dike failure
- Curtails tons of muck that degrade waters
- Restores wetlands lost to overdrainage
- Helps recharge Biscayne Aquifer and cuts waste to ocean

PLAN 6 FLOWWAY Straig of Grass, the intestrop Utals



C.3-1251

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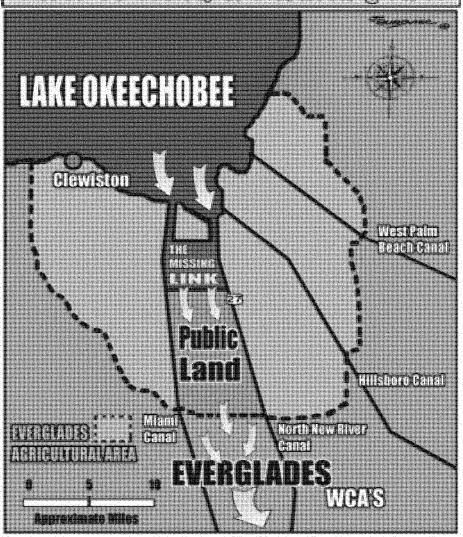
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PLAN 6 FLOWWAY River of Crass, the Missing Unk



C.3-1256

Dr. J. William Louda Environmental Biogeochemist B.S., Ms. Biological Sciences, Ph.D. Marine Science*

* major in organic geochemistry

(** Senior Scientist Florida Atlantic University
Department of Chemistry and Biochemistry
And The Environmental Sciences Program)
**This letter is from me personally.

TO: Commissioners, Managers, Directors, Editors and others as it may ap

Board of County Commissioners, Palm Beach County
Board of County Commissioners, Broward County
United States Geological Survey
Palm Beach County Environmental Resources management
South Florida Water Management District
United States Army Corps of Engineers
State of Florida Department of Environmental Regulation
Florida Power and Light
Florida Audubon
1000 Friends of Florida
Everglades Foundation

Friends of the Loxahatchee Wildlife Refuge Palm Beach Post The Wellington Town Crier Senator Joe Negron Representative Patrick Murphy

Governor Rick Scott

<u>DATE</u>: 4 October 2013

SUBJECT: Leap-frog (over) Development and the Everglades Protection Area

Dear Governor, Senator, Representative, Commissioners, Directors, mangers, Editors and others as it may apply;

Palm Beach County presently has a few high impact development proposals before the Commission. It is my contention that these-developments-should-first-be-considered-in-total, not separately, and viewed collectively as Development(s) of Regional Impact. In fact, their impacts go way beyond creating traffic / infrastructure stresses and economic burdens on Palm Beach County. Two of these proposed developments, Highland Dunes and Via-Arezzo (sod farm) are located at the juncture of the L8 andC51 canals which places them only a few hundred yards from the northern tip of the Arthur R. Marshall / Loxahatchee National Wildlife Refuge, also known as Water Conservation Area #1 (WCA-1) and its adjacent Storm Water Treatment areas (STA-1E and -1W). That proposal is at the end of this cover letter. The density and intensity of that (Highlands Dunes) proposal is beyond comprehension.

US-ACE and SFWMD are being pressured to find alternate routes for the release of water from Lake Okeechobee in order to relieve the nutrient and salinity decreasing impacts on both he Caloosahatchee and St Lucie estuaries, including the full Indian River Lagoon. These water woes are making national and international headlines. At Water Module conference last month, I heard that the filtering marshes, STA-1E and 1W are performing excellently (~15-17 ppb P output) when they are allowed to function properly. Proper function, in no small part, includes not having to process more water than biology allows. As we may fully expect that more water will be sent down the L10, L12 and especially the L8 canals which join to form C51. This water current and future has but 2 directions to go, other than back pumping to Lake Okeechobee. That is, it can go south through the filtering marshes (aka storm water treatment areas) STA-1E/-1W or east down the C51 and enter the Lake Worth Lagoon as untreated nutrient laden water. In either case, environmental degradation will occur. In the latter case, increased phosphorus pollution heading into Lake Worth Lagoon may in fact lead to decreasing nitrogen to phosphorus ratios (N:P) which favor nitrogen fixing cyanobacteria (aka blue-green algae). In addition to changing the biological communities in Lake Worth Lagoon, it is these blue-green algae that can become toxic and create severe human health problems.

Now, most of you are very used to receiving letters, phone calls and emails that contain only complaints and offer no solutions. Therefore, after what is above, all of which is very real, I do have a few suggestions to help the future of the Central Western Communities, the Everglades, Lake Worth Lagoon, Lake Okeechobee and even green solar energy.

Following these opening comments are a series of figures using Google-Earth to graphically detail the areas in question. This dialog is given in three parts:

First, concerns centered on traffic impacts on surrounding communities and the fiscal burden to taxpayers in both Palm Beach County and the State in general.

Second, the need to provide more water detention and cleansing in order to directly protect the Everglades and Lake Worth Lagoon and indirectly ease the stress on the Caloosahatchee and St. Lucie estuaries.

Third, I resurrect a proposal for solar energy linked to filtering marshes that I first presented in 2007 and again in 2008. However, due to recent highly significant advances in solar panels that transmit as well as absorb light, is now very much possible. As my research in the Everglades for well over a decade is with the algae and periphyton, I know very well that presently these primary producers are receiving way more light than they need. How do I know this? They synthesize enormous amounts of sunscreen pigments that are not found in the same species grown under light levels. Following the general conceptual introduction is the original (2007) full concept proposal* as peer-reviewed and supported by other scientists.

I thank you for your time and consideration not only of my proposals, the lives and lifestyles of those in the rural areas of central Western Communities of Palm Beach County as but also of the environments affected by the waters that move through this region.

Sincerely.

Dr. J. William Louda blouda@fau.edu 561-297-3309 FAX 561-297-2759

NOTE-I have NO financial interest in this *concept nor is it patented.

"The Preliminary Master Plan indicates 1,209.96 acres of development area which includes 1,252 Single Family Units; 628 Zero Lot Line Units; 120 Townhouse Units, which are designated as Workforce Housing; a 5.68-acre Commercial Pod to allow a maximum of 50,000 square feet of commercial or retail uses; a 24.22-acre Public Civic Pod which includes a 20-acre Park and 50,000 square feet of Offices for Government Services; and, a 15.66-Civic Pod to allow a 970-student Public Elementary School. Also proposed is 516.37 acres of open space which includes 96.51 acres of Lake Management tracts, 17.71 acres of Public Trails, and 13.61 acres of Private Recreation area. Two access points to the development will be from Southern Boulevard to the south. one access to the future extension of Okeechobee Boulevard to the north, and one cross access to a future development to the east from Via Arezzo."

Ex:

PALM BEACH COUNTY

PLANNING, ZONING AND BUILDING DEPARTMENT

ZONING DIVISION Application

ABN/PDD/R-2013-00499

No.:

Application Name: Highland Dunes PUD

Control No.: 2005-00394

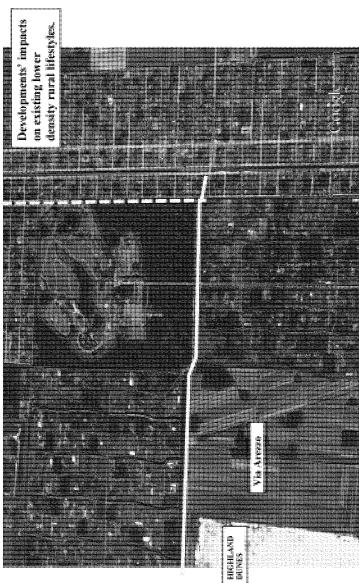
Applicant: PBA Holdings Inc - Enrique Tomeu Owners: Palm Beach Aggregates Inc Agent: Urban Design Kilday Studios -

Kieran J Kilday

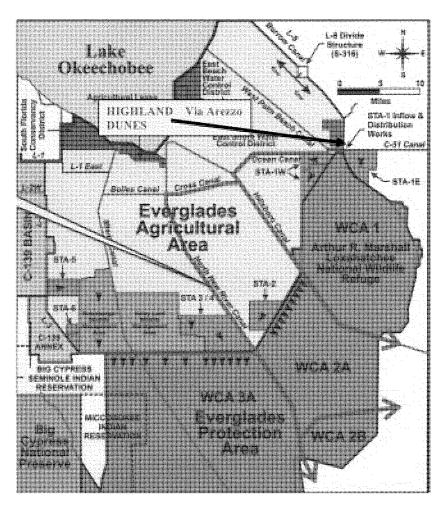
Telephone No.: (561) 366-1100

Project Manager: Carrie Rechenmacher, Senior Site

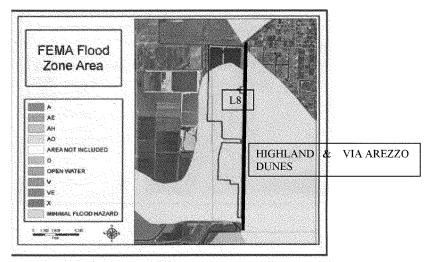
Planner



expansion of Okeechobee Blvd. This will greatly impact the Village of Royal Palm Beach, The Loxahatchee Acreage, A small jog from Cheetham Hill Blvd. to link with Deer Run Blvd. & then on to the northern link of Highland Dunes. These developments, Minto to the North, Highland Dunes and Via-Arezzo to the west, will force the extension and Deer Run, Fox Trail and White Fences. Also note that these developers do not have any obligation to pay for infrastructure improvements to satisfy concurrency.



NOTE: The Highlands Dunes and Via Arezzo proposed developments at exactly at a very critical juncture of waters associated with the Everglades Restoration project. This is NOT a place to put thousands of homes leaching fertilizer, herbicides, petroleum products and other pollutants-rather it IS a place to put additional water detention and cleansing filtering marshes.



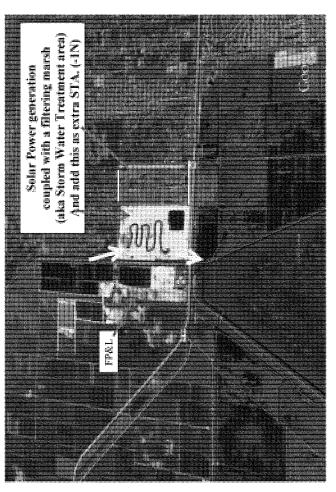
FEMA Flood Zone Area amp of the area around the L8 reservoir.

Source: http://www.sfwmd.gov/portal/xrepository/sfwmd_repository_pdf/land_assessment_study_process.pdf

It makes little sense to allow new high density development that is first out of character with the communities immediately to the east. However, to even consider this within a known FEMA level "AO" flood zone is ludicrous. The Highland Dunes proposed project is immediately adjacent to the L8 canal and the L8 reservoir and these lands would serve a much better public purpose if they were converted to water cleansing filtering marshes (aka Storm Water Treatment Area (e.g. STA-1N).

Rather, if these lands were purchased for the requisite water cleansing / storage functions requisite for adequate Everglades restoration (actually 'rejuvenation) then a public service would be accomplished. Simple measurements from Google Earth show that these lands are about $6,060 \times 8,559$ feet (= 51,813,000 ft²: Highland Dunes) and about $4,750 \times 8,559$ feet (= 40,612,500 ft²: Via Arezzo). At 43,560 ft² per acre that is approximately 2,121 acres which at a depth of 3 feet, using 325,851 US gallons per acre-foot, would the hold about 2.01 Billion gallons of water.

Note that I used a depth of only 3 feet in order to allow adequate photosynthetically active radiation (PAR, $\lambda = 400-700$ nm) to reach the bottom for plentiful subaquatic vegetation (SAV) and periphyton growth, the active nutrient sequestering biological agents of such a filtering marsh. I purposefully omitted emergent macrophytes as these marshes are also being suggested as co-locating photovoltaic (PV) solar-powered electrical generation sites. This will be detailed in the next page or two.

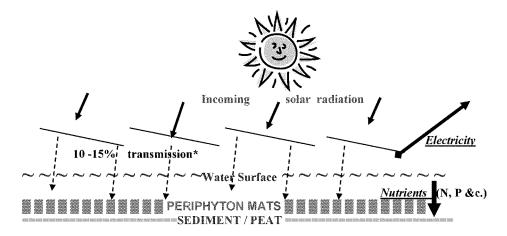


Now is the perfect time and opportunity and location to join two needed functions to help the economy and the environment.

A combined solar polar (photovoltaic cells that allow 15-20% of INSOLATIO N (INcoming SOLar radiATION} to pass through and provide PAR {Photosynthetically Active Radiation} to a periphyton assisted stormwater treatment marsh below. Would start the cleansing of L8 and L8 reservoir waters.

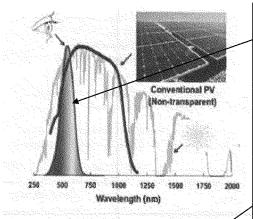
Yes this would be novel but this IS the perfect place to try it.

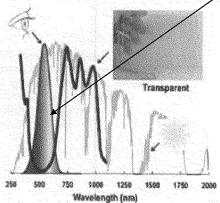
GRAPHIC REPRESENTATION OF THE VERICAL PROFILE OF THE PROPOSED "SOLAR MARSH"



** Or about 100% transmission of photosynthetically active radiation (PAR, 400-700nm) using the MIT-Energy Initiative panels when commercially available. Presently PV solar panels that transmit light ARE available.

- Panels self-power to track the sun.
- Panels should be able to be lowered during hurricane events.
- Panels should be able to rotate into a fully perpendicular position with respect to the ground in order to allow for maintenance of both the panels and the marsh.
- If FAU Ocean Engineering can transmit electricity from offshore through salt water, insulating these transmission lines would be facile.





"They" also told Wilbur and Orville that it wouldn't work!

Using conventional PV solar cells over water bodies, such as the failed experiment in India {covered a canal}, will indeed not allow photosynthesis to occur underneath.

However, there are products on the market now that transmit a percentage of incident solar radiation. Additionally, the MIT-Energy Initiative is in the process of readying for commercialization a product which will selectively allow visible light to pass through. This visible light (wavelengths of 400-700 nm) is also called Photosynthetically Active Radiation (PAR).

Now, by readying south Florida for a paradigm shift in PV solar arrays Florida Power and Light (FP&L) could partner with the South Florida Water Management District (SFWMD) and create the world's first solar power electric generating – water filtering marsh.

Given that a huge part of the cost of either PV solar array fields or filtering marshes (aka stormwater treatment areas) is the land, such a partnership would split the coast between the partners.

The proposed site of the Highland Dunes development is the PERFECT place to initiate the solar-marsh concept since the FP&L West County Energy Center is but 2/3 mile to the west

Solar PV Greenhouse

Solar Power Generating Greenhouse Incorporating Transparent PV Glass



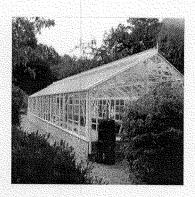
HOME

PRODUCT

TECHNOLOGY

Q&A

CONTACT



Does the tinted solar PV glass affect plant growth in the greenhouse?

The PV glass both absorbs and reflects the IR light spectrum, so that the excess heat is reflected in summer and retained in the winter - this gives a more stabilized growing environment. Also, the PV cuts out the negative scorching effects of UV light on plants. The high red light spectrum transmission of the PV glass (~40%) is what is required for photosynthesis, therefore atthough the overall light reaching the plants is reduced there is limited impact on overall plant growth.

is the solar greenhouse eligible for FiT payment?

The electricity generated can be fed back into the house to power the home and is currently eligible for Government. Feed-in-Tariff subsidies for the electricity generated. Hence the greenhouse will both reduce your energy bills and generate an income for 25 years.

How much of a saving will I make on my electricity bill?

The amount of electricity generated will depend on where you live and the positioning of the greenhouse. Our 12 panel 1.08KWp solar greenhouse optimally positioned in central England would expect to generate 900kWh/annum. With current FTS (13.9pkWh), export tariff(4.5p/kWh) and electricity savings (16p/kWh), the greenhouse can return £290 per year for 25 years.

http://solarpvgreenhouse.com/qa.php

The United Kingdom (UK, aka Britain) is doing it.

Same concept with a Solar Marsh except that the panels would be more or less parallel to the ground and would track the sun, if needed.

CONCEPT: SOLAR POWER GENERATION COUPLED WITH PERIPHYTON-BASED STORMWATER FILTERING MARSH.

Dr. J. William Louda, Senior Scientist
Department of Chemistry and Biochemistry
and the Environmental Sciences program
Florida Atlantic University
777 Glades Road
Boca Raton, FL 33431
blouda@fau.edu
(561) 297-3309 office, (561) 297-3398 lab
April 20, 2007
CONCEPT SUPPORTED BY:

Dr. Roger A. Messenger, Professor Department of Electrical Engineering Florida Atlantic University 777 Glades Road Boca Raton, FL 33431

Dr. Joseph Boyer, Associate Directo Southeast Environmental Research Center Florida International University Miami, FL 33133

Dr. Len Berry, Director Florida Center for Environmental Studies 3932 RCA Boulevard Palm Beach Gardens, FL 33410-4228 (Blue type added/changed in Feb. 2008)

<u>Summary proposal</u>: It is proposed that Florida Power and Light (FP&L), in fiscal and managerial cooperation with the State of Florida (the State), Palm Beach County (the County), the Army Corps of Engineers (the Corp, US-ACE) and South Florida Water Management District (the District, SFWMD), with academic support from the State University System, investigate, design, build and operate a co-operative solar power generation array over several hundreds of acres of constructed wetlands in western Palm Beach County.

Reasons: (a) Increasing demand for electrical power in southern Florida obviously parallels the quite large increases in population in this area. (b) This increasing demand is forcing FP&L to promote coal powered electrical generation (Glades County) which, regardless of claims to the contrary, will pollute the atmosphere and aeolian fallout will then contaminant (NO_x, SO_x, Hg, As etc.) the Everglades and its watersheds. (c) Both the proposed coal (Glades Co.) and natural gas (Palm Beach Co.) power plants contribute huge amounts of green house gases (carbon dioxide and unburned hydrocarbons) to the atmosphere. (d) Once solar plants are constructed, there will never be increases in fuel (sunlight) costs. (e) Placement over a filtering marsh allows for a combined use of valuable land: stores water, cleans water and acts as a flow-way.

Advantages: (a) Totally non-polluting. (b) Unlimited energy supply (sun). (c) Would show the World that America can care about the future (no CO₂ emissions). (d) Offers large expansion of filtering marshes for Everglades Restoration and related projects. (e) Enormous local, state, national and international public relations benefit to all governmental and NGO organizations involved. Siting would be the same (WCEC) for distribution(20 mile bend) and a solar array / filter marsh flow-way would be a great addition to the K-O-E system for CERP.

<u>Growth Management Advantage:</u> Hundreds of acres of land would be required. The lands in western Palm Beach County that are presently in agricultural production (AP) are owned by several corporations that have already expressed interest in development. Thus, purchase of these lands would get the landowners profits immediately and would remove these lands from any future development.

<u>Disadvatage:</u> (a) Costs (design, land and construction). (b) Reluctance of the power companies and government to get off the "fossil fuel" standard.

Some Recent Solar Energy Advances:

- (1) Massey University in New Zealand (Dr. Wayne Campbell) has developed a synthetic chlorophyll (energy absorbing / transforming molecule in plants) analog containing titanium from titanium dioxide. The process is much less expensive that silicon based solar cells. Disadvantage is that this is not yet a technology.
- (2) CIGS (copper indium gallium selenide) thin films are an existing technology. CIGS based solar arrays exist on a commercial scale, such as the "Rote Jahne" power plant in Germany. Thin film solar collectors are getting much closer to the so-called "critical tipping point" cost per megawatt. The cost of fossil fuel electricity can only go up in direct parallel with inflation and increased demands for cleaner technologies to remove NO_x, Hg and other emissions.

Thin films also have an advantage that factors directly into this proposal. This is transmissivity. In other words, not all of the <u>incoming solar</u> radia<u>tion</u> (INSOLATION, sun light) is stopped by the thin films. In fact, certain thin films are being designed to be used as electrical generating window tinting systems. The transmission of sunlight is discussed in the next section.

NOTE / FACT: More energy (sunlight) hits the surface of the earth EACH day than man uses in an entire year!

Periphyton-based storm water treatment areas:

Periphyton-based STAs, or PASTA, are also called filtering marshes and are designed to mimic nature in that they remove nutrients from the water and store these within accumulating biomass or peat.

Presently, STAs, as the Everglades in general, have high rates of evapotransporation (ET), the combined effects of the physical process evaporation and the biological process of transporation (metabolic 'pumping' of water through an emergent plant into the air). Solar arrays placed over a filter marsh would lead to reflux (evaporation / condensation cycling) and lower water loss to the atmosphere.

A study by Serge Tomas and co-workers at Florida International University [Tomas, S., Gaiser, E. E. and Tobias, F. A. (2006) Effects of shading on calcareous benthic periphyton in a short-hydroperiod oligotrophic wetland (Everglades, FL, USA) *Hydrobiologia* 569: 209 – 221]

has proven that Everglades type periphyton grows very well in only 10-20% of the ambient solar flux reaching the surface in southern Florida.

My own studies (see Neto, R.R., Mead, R.N., Louda, J.W. and Jaffe, R. (2006) Organic biogeochemistry of detrital flocculent material (floc) in a subtropical, coastal, wetland. Biogeochem. 77: 283 – 304. -- and-- Hagerthey, S. E., Louda, J. W. and Mongkronsri, P. (2006) Evaluation of pigment extraction methods and a recommended protocol for periphyton chlorophyll a determination and chemotaxonomic assessment. J. Phycology 42: 1125 – 1136.) have revealed that periphyton growing in the high light environment of southern Florida produce large amounts of ultraviolet and visible light sunscreen pigments to counteract photoinhibition and other deleterious metabolic effects of too much solar flux.

SUMMARY:

To reiterate, it is proposed that FP&L, in cooperation with the State, the County, US-ACE) and SFWMD investigate, design, build and operate a solar power generation array over several hundreds of acres of constructed wetlands in western Palm Beach County. This system could be self-powered to track the sun for maximal output. In addition, given the potential for Hurricanes, it should be built with a low aerodynamic profile designed to minimize wind resistance.

As most power is used during daylight hours but noting that energy is required at night, existing fossil fuel plants and new biomass conversion plants could be used to complete the power grid. Biomass conversion plants, requiring particulate and other scrubbing technology, would also have an advantage in southern Florida. That is, rather than placing vegetative wastes into landfills, that material could be burned as fuel. While it is true that biomass conversion adds CO₂ to the atmosphere, it does so on a more realistic time scale when compared to fossil fuels. That is, fossil fuels contain carbon that was sequestered millions of years ago while biomass conversion can be considered 'recycling'. Ultimately, solar energy may fulfill 24 hour a day energy needs but electrical storage technologies lag behind production capabilities for now. However, recent advances (2007-8) reveal that the storage of energy as molten salt, compressed air and other will allow solar to yield 24 hr/d power.

The key to power independence and a clean safe world will be *diversification*. Presently, the Department of Ocean Engineering at Florida Atlantic University has joined with the Ocean Renewable Power Co. to design and refine the technology to harness the power of the Gulf Stream (aka Florida Current) using submarine turbine arrays. Add ocean, biomass conversion and solar power to the same grid in southern Florida and solve much if not most of the power needs for at least this part of our state.

The time to move forward with imaginative non-polluting energy sources is here. Actually, we are late, the initiative must be now and the progress swift.

<u>CONCLUSION:</u> Expansive solar energy production arrays placed over periphyton based filtering marshes would: (1) produce electricity, (2) clean surface waters, and (3) allow the removal of lands from future development while giving those landowners the profits they desire.

Basic concept in graphic form: see following figures.

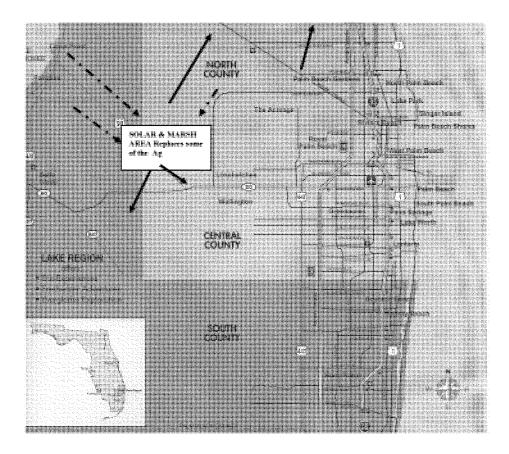


Figure 1: Proposed location of a cooperative (FP&L, US-ACE, SFWMD) Solar Power Generation Area. Broken lines (→ →) indicate water inflow, solid lines (→ →) indicate outflow to the Loxahatchee Slough (NE) and to STAs-1E and 1W (south).

NOTES: This proposal as sent to FL-DEP was passed to SFWMD and the joint comments were that the marsh would not operate at 100% efficiency since photosynthesis is directly related to irradiance. To this I rebut that the periphyton in the Everglades synthesize enormous amounts of "sunscreen pigments" to cut down on the amount of 'felt irradiation'. I therefore dismiss those comments as not being accurate as they derive from schoolbook graphs showing photosynthetic output of temperate higher plants. This is, of course, a new concept and one that needs to overcome the inertia of the commonplace. It will take pilot study, refinement and implementation. DO we not need to crawl before we walk and walk before we run?

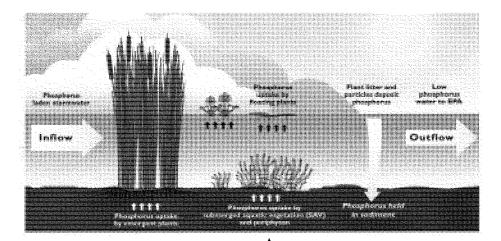
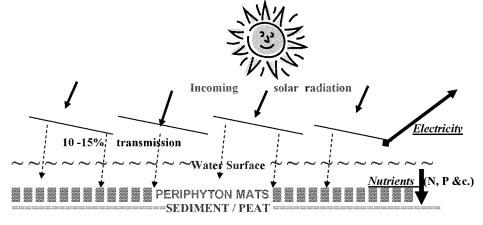


Figure 2: Conventional storm water treatment area (STA) or filtering marsh utilizing many types of aquatic vegetation. PASTA or periphyton-based filtering marshes are typically shallower and consist primarily of benthic algae. Emergent plants would be minimized and removed periodically. (see http://www.sfwmd.gov).



<u>Figure 3:</u> Conceptualized vertical cross section of Solar Arrays over a periphyton-based filtering marsh.

NOTES ADDED FEB.8, 2008: Advances in photovotaics and parabolic solar heat concentration technologies make the above suggested 'solar marsh' much more feasible than just 10 months ago when first proposed. It is past time to act. Small (10-30MW) solar "demonstration" plants can be scaled up to the 1,000+ MW stage now.

<u>NOTE</u>: With the purchase of the US Sugar lands, this concept is even more viable. Have FP&L, or get another power company, to just do it! (JWmL: 07/26/08)



December 3, 2013

The Honorable Jo-Ellen Darcy Assistant Secretary of the Army (Civil Works) 108 Army Pentagon Washington, DC 20310

Dear Secretary Darcy;

The Everglades Foundation strongly encourages your continued leadership to ensure that the Central Everglades Planning Project (CEPP) Chief's Report is submitted to Congress in early 2014. As you know, the schedule for this pilot-planning project was embraced by President Obama and included in the White House's "It Can't Wait" list, yet despite the support advocates of CEPP have been waiting and completion of the Chief's Report has become a moving target. An original Chief's Report was expected in May 2013, yet continued delays are jeopardizing momentum, funding and ecological benefits.

This past summer, Floridians living along the Caloosahatchee and St. Lucie estuaries were adversely impacted by billions of gallons of polluted water from Lake Okeechobee. Residents and business on both coasts quickly embraced the need to move water south. The CEPP pilot project allows for water to move south thus reducing these devastating discharges.

When does the Obama Administration expect to complete and transmit the Chief's Report to Congress? This is a critical question and one that we wait to hear your response.

n the meantime, we respectfully ask that you empower Colonel Dodd and USACOE staff at Headquarters to eliminate any procedural hurdles that may cause this critical project to miss Congressional authorization in the pending Water Resources Development Act (WRDA). U.S. House and Senate leaders are diligently working to include authorization of CEPP. A completed Chief's Report is tremendously important.

CEPP enjoys unprecedented stakeholder support. Corps staff has worked with the environmental community, local partners, recreational users and agriculture for more than wo years to reach this point. Failure to achieve Congressional authorization would render a lemoralizing defeat, undermine the public trust and cause Floridians living along estuaries mpacted by toxic alga blooms to become exasperated.

Everglades Foundation

18001 Old Cutler Road, Suite 625 • Palmetto Bay, FL 33157

Phone: 305.251.0001 • Fax: 305.251.0039 • evergladesfoundation.org

Madam Secretary, you are an Everglades champion. We are confident that under your leadership the U.S. Army Corps of Engineers will complete the CEPP Chief's Report by April 2014 in order for this project to receive Congressional authorization.

Sincerely,

Eric Eikenberg, CEO

Cc: Steven Stockton, Director of Civil Works
Major General Michael Walsh
The Honorable Bill Nelson (D-FL)
The Honorable Marco Rubio (R-FL)
The Honorable Mario Diaz-Balart, co-chair, House Everglades Caucus
The Honorable Alcee Hastings, co-chair, House Everglades Caucus
The Honorable Patrick Murphy (D-FL)
The Honorable Trey Radel (R-FL)

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DEPARTMENT OF THE ARMY OFFICE OF THE ASSISTANT SECRETARY CIVIL WORKS 108 ARMY PENTAGON WASHINGTON DC 20310-0108

OCT 1 1 2013

Ms. Cara Capp National Co-Chair Everglades Coalition 450 N. Park Road, #301 Hollywood, FL 33021

Dear Ms. Capp:

I am responding to your letter dated August 15, 2013, and cosigned by State Co-Chair Jennifer Hecker, asking that the Army Corps of Engineers (Corps) expedite the Central Everglades Planning Project (CEPP) and complete the Report of the Chief of Engineers by December 31, 2013, in order to address the estuary problems caused by the Lake Okeechobee project operations and to enable consideration of the CEPP in the proposed Water Resources Development Act. I apologize for the delay in responding to your letter. I am providing an identical response to Ms. Hecker.

The Corps is making every effort to complete the Chief's Report as expeditiously as possible, including several key activities. On August 30, 2013, the CEPP Draft Integrated Project Implementation Report (PiR) and Environmental Impact Statement (EiS), dated August 2013, was released for public review in accordance with the National Environmental Policy Act (NEPA) of 1969 (Public Law 91-190). The public review is scheduled to end October 15, 2013. As required by NEPA, all comments received during the public review must be reviewed and addressed. Because the extent and type of comments are unknown, it is difficult to anticipate how long it might take to address them.

In addition, the Corps must comply with other requirements in order to complete the final PIR/EIS. The Corps is working with the United States Fish and Wildlife Service to develop a biological opinion for CEPP in accordance with the Endangered Species Act of 1973 (Public Law 93-205). The Corps must also finalize the engineering and environmental analyses for the recommended plan and conduct an independent peer review in accordance with the Water Resources Development Act of 2007.

Once the final PIR/EIS is completed, the Jacksonville District Engineer will present the report and recommendations to the Civil Works Review Board in the Corps Headquarters. Subject to CWRB approval, the final PIR/EIS and a proposed Report of the Chief of Engineers would then be released for the State and Agency Review that is required by Executive Order 12372 – Intergovernmental Review of Federal Programs (July 14, 1982) and the Flood Control Act of 1944 (Public Law 78-534). After the views of the states and agencies are considered and addressed as needed, the Chief of Engineers would consider signing his report and forwarding it to me.



Retycled Caper

I understand your concerns regarding the study schedule. Please note that we currently cannot predict the effects of the delay in appropriations for Fiscal Year 2014, which could impede or delay the efforts of the Corps and supporting agencies to complete this important work in a timely manner. Thank you for your interest in the Army Civil Works Program.

Very truly yours.

Jo-Ellen Darcy

Assistant Secretary of the Army (Civil Works)

F



DEPARTMENT OF THE ARMY OFFICE OF THE ASSISTANT SECRETARY CIVIL WORKS 108 ARMY PENTAGON WASHINGTON DC 20310-0108

OCT 1 1 2013

Ms. Jennifer Hecker State Co-Chair Everglades Coalition 450 N. Park Road, #301 Hollywood, FL 33021

Dear Ms. Hecker:

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C.3-1276

Recycled Paper

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Very truly yours,

Jo-Ellen Darcy

Assistant Secretary of the Army

(Civil Works)

August 20, 2012

Jo-Ellen Darcy
Assistant Secretary for Civil Works
Department of the Army
108 Army Pentagon
Room 3-E446
Washington DC 20310—1-9

RECEIVED

ALIG 27 2013

Office of the ASA(CW)
Washington, DC

Re: C-44 STA Water Reservoir and St. Lucie River Discharges

Dear Assistant Secretary Darcy:

l am writing in support of the Central Everglades Planning Project and urging the Corps to go to the max to meet all regulatory deadlines and reporting requirements so that this project can be authorized and more importantly funded by Congress this year.

The Corps gets the blame for the consequences of many of its decisions or lack thereof. Don't let this be one of those situations. We can't go back to the time Lake O was confined by the dike and redo it – but we must go forward and correct those mistakes. The life two rivers is at stake – no one should have the right to make sewers of our waters – not business, individuals and most especially not the government.

In addition to CEPP the Corps must use all its expertise to mitigate and minimize the current destruction to the waterways. It is essential that the Corps work with the state and local governments and water management authorities but also with other Federal agencies and the citizens and environmental environmental advocates to remedy this disaster.

Sincerely,

Mary-Win O'Brien 2600 SE Ocean Blvd, W1 Stuart FL 34996



DEPARTMENT OF THE ARMY OFFICE OF THE ASSISTANT SECRETARY CIVIL WORKS 108 ARMY PENTAGON WASHINGTON DC 20310-0108

NOV 14 2013

Ms. Mary-Win O'Brien 2600 SE Ocean Boulevard W1 Stuart. Florida 34996

Dear Ms. O'Brien:

This is in response to your letter dated August 20, 2013, expressing support for the Central Everglades Planning Project (CEPP) and concerns about the C-44 Stormwater Treatment Area (STA) Reservoir and St. Lucie River discharges. I apologize for the delay in responding.

On August 30, 2013, the CEPP draft report began undergoing a public and policy review and the public comment period was extended to November 1, 2013. While every effort is being made to complete the Chief's Report as expeditiously as possible, there are several key activities that must be completed before that can happen. As required by the National Environmental Policy Act of 1969, all comments received during the public review process must be reviewed and addressed. In addition to the public review, the Corps is also working with the United States Fish and Wildlife Service to develop a biological opinion for the project.

While authorization and implementation of CEPP will help address the St. Lucie River discharges, the C-44 project will also help. There are several components to the C-44 project, namely the intake canal and associated features, as well as the actual reservoir and related works. The first contract for the intake canal and associated features, which is currently underway, will lay the ground work for significant improvements to the health of the Indian River Lagoon system. Future funding for additional C-44 contracts will be considered along with many other worthwhile programs, projects, and activities competing for limited resources across the Nation.

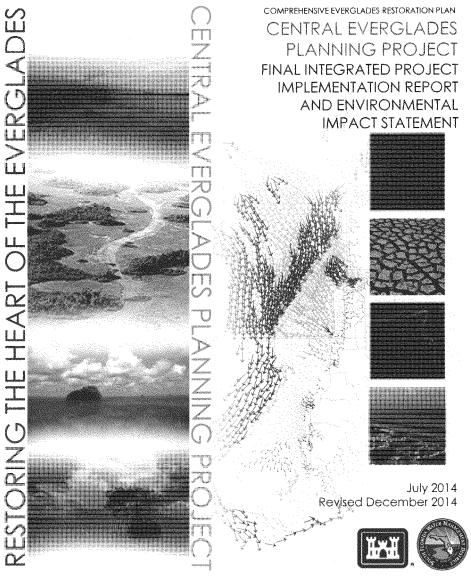
Thank you for your interest in the Army Civil Works Program.

Very truly yours,

Jo-Ellen Darcy
Assistant Secretary of the Army
(Civil Works)

PRINCED OF RECYCLED PROPER

C.3-



Appendix C.4 and C.5

Cover insets (left to right):

Landscapes: Lake Okeechobee, Water Conservation Area 3, Everglades National Park, Florida Bay; Map: Depicts Average Annual Overland Flow across the period of record (1965-2005) for existing conditions, as modeled by the CEPP regional hydrologic model (the coloration of the arrows represents the relative volume of flow, while the direction of the arrows represents the movement of flow across the landscape); Small Landscapes: Ponding, soil oxidation (peat reduction), dry area of Everglades National Park, juxtaposition of urban development.

APPENDIX C.4

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C.4 COMPLIANCE WITH ENVIRONMENTAL LAWS, STATUES AND EXECUTIVE ORDERS

The following documents required compliance with specific Federal acts, Executive Orders (E.O.) and other applicable environmental laws. The following sections provide a summary of environmental compliance with each Act, E.O. or applicable law.

C.4.1 Anadromous Fish Conservation Act

Anadromous fish species would likely not be affected by the proposed project. NMFS provided a Programmatic Biological Opinion for the Comprehensive Everglades Restoration Plan to the Corps on 17 December 2013.

C.4.2 Archaeological Resources Protection Act 1979

This Act works to protect and preserve historical and cultural resources of Federal lands, including Indian lands through a permit system authorizing scholarly study and excavation of cultural properties, as well as provide sanctions for unauthorized use, removal, or damage to any archaeological resource 16 U.S.C. §§432-33; 36 CFR Part 296. The term resource includes human remains, pottery, basketry, bottles, weapon projectiles, rock carvings and paintings, tools, structures or portions thereof, graves, skeletal remains 16 U.S.C. § 470bb(1). Resources of 'recent' origin (less than 100 years) are not protected by ARPA. U.S. v. Shivers, 96 F.3d 120. CEPP is in compliance with this act and will continue to comply throughout construction and operation.

C.4.3 Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act, enacted in 1940 prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" bald eagles, including their parts, nests, or eggs. While areas of foraging habitat utilized by bald eagle may be within the project area, impacts to these areas are not likely to adversely affect this protected species. The project would be in compliance with this Act upon review of this document and associated Biological Assessment (BA) by U.S. Fish and Wildlife Service (USFWS).

C.4.4 Clean Air Act

The existing air quality within South Florida is considered good. Section 176 (c) of the Clean Air Act requires that Federal agencies assure that their activities are in conformance with the federally approved Clean Air Act state implementation plans for geographical areas designated as "non-attainment" and "maintenance" areas under the Act. The proposed project is not located within a "non-attainment" area since there are none within the State of Florida. The only new potential source of air pollution as a result of this project would be from construction of pump station(s). Pursuant to rule 62-210.300(3)(a)(21)(b), operations staff would be required to determine if stations would be exempt from air permitting or if an air general permit would be required. Upon this determination, the project would be in compliance with this Act.

C.4.5 Clean Water Act of 1972

Full compliance would be achieved with issuance of a Water Quality Certification (WQC) under Section 401 from the State of Florida. A Section 404 (b)(1) evaluation has been prepared in **Appendix C.4.32**. The project may require dewatering permits and National Pollution Discharge Elimination System permits depending on means and methods of construction. All required permits would be obtained prior to construction activities. All State water quality standards would be met. Water quality is expected to improve with the proposed project. In compliance with this Act and will obtain Water Quality Certification (WQC) from the State of Florida and any required National Pollutant Discharge Elimination System (NPDES) permits and will update 404(b) analysis prior to construction.

C.4.6 Coastal Barrier Resources Act and Coastal Barrier Improvement Act of 1990

The official Coastal Barrier Resources System (CBRS) maps were reviewed and the CEPP project does not fall into any designated CBRS areas. There are no designated coastal barrier resources in the project area that would be affected by the proposed project. These Acts are not applicable to this project.

C.4.7 Coastal Zone Management Act of 1972

A Federal Consistency determination has been prepared in accordance with the provisions of 15 CFR 930 and is located in Appendix C.4.33. The U.S. Army Corps of Engineers (USACE) has considered the enforceable policies of the State of Florida's management program as requirements to be adhered to in addition to existing Federal agency statutory mandates. The proposed project would be consistent to the maximum extent practicable with the enforceable policies of Florida's approved Coastal Zone Management program. This project would be in compliance upon review of this document by the State of Florida and issuance of Water Quality Certification. In a letter dated October, 11 2013, the Florida Department of Environmental Protection the State determined that the USACE's Draft PIR/EIS for CEPP is consistent with the Florida Coastal Management Program (FCMP). To ensure the project's continued consistency with the FCMP, the concerns identified by the reviewing agencies must be addressed prior o project implementation. The state's continued concurrence will be based on the activities' compliance with FCMP authorities, including federal and state monitoring of the activities to ensure their continued conformance, and the adequate resolution of issues identified during this and subsequent regulatory review. In compliance with this Act and obtaining concurrence by the State of Florida. The Corps will be in compliance with the Coastal Zone Management Act at the time of construction.

C.4.8 Endangered Species Act of 1973

The proposed project has been coordinated with the USFWS and National Marine Fisheries Service (NMFS). The Corps requested concurrence from the USFWS on federally listed species and critical habitat that may be present in the project area in a letter dated January 23, 2013. Consultation with the USFWS was initiated on April 1, 2013 with preparation of a Biological Assessment (BA). The USFWS provided concurrence on the species list on May 10, 2013. See **Annex A** for the complete list of federally listed species and critical habitat provided in the BA that was prepared for this project. The Corps provided a BA to USFWS on 5 August 2013 (Annex A – Biological Assessment). The Corps received comments and a Request for Additional Information (RAI) from USFWS on 4 September 2013. The Corps provided a comment response matrix and a Supplemental Technical Analysis in Response to USFWS' RAI on the Central Everglades Planning Project Biological Assessment on 24 October 2013 (Annex A – Supplemental Technical Analysis for the CEPP BA). In a letter dated 13 December 2013, the Corps changed its request from formal to early consultation.

Formal consultation initiated with USFWS on August 5, 2013 with completion of Biological Assessment. The Corps received a Request for Additional Information (RAI) from USFWS on September 4, 2013. The Corps provided a Supplemental Technical Analysis in Response to USFWS' RAI for CEPP on October 24, 2013. On December 13, 2013 the Corps changed its request from formal to early consultation. The Corps entered formal consultation with USFWS on the Everglade snail kite (Rostrhamus sociablis plumbeus), and its designated critical habitat, Cape Sable seaside sparrow (Ammodramus maritimus mirabilis), (CSSS) and its designated critical habitat, wood stork (Mycteria americana) and eastern indigo snake (Drymarchon corais couperi). A Programmatic Biological Opinion (BO) was received on April 9, 2014, which clearly states that further consultation will be needed when more specific project details

are finalized during PED. While this document does not authorize incidental take of three endangered avian species (CSSS, snail kite, and wood stork), it does describe the anticipated effects based on current information. Upon completing ESA Section 7 consultation for each PPA, USACE will undertake the agreed-to avoidance and minimization measures and implement any required terms and conditions (TCs). When USACE is closer to constructing phases of CEPP that will affect listed species, FWS will provide separate consultation document(s) which may authorize incidental take, and provide applicable reasonable and prudent measures (RPMs) and TCs. The preliminary conclusion is that the proposed project is not likely to jeopardize the continued existence of the species listed above and is not likely to adversely modify critical habitat, where designated. The Programmatic Biological Opinion concurred with the Corps' determination of may affect, but is not likely to adversely affect the Florida panther (Puma concolor coryi), West Indian manatee (Trichechus manatus), and its critical habitat, American crocodile (Crocodylus acutus) and its critical habitat, deltoid spurge (Chamaesyce deltoidea ssp. deltoidea), Garber's spurge (Chamaesyce garberii), Small's milkpea (Galactia smallii), and tiny polygala (Polygala smallii). Furthermore, the Service concurred with all the "No Effect" determinations made by the Corps in regard to the applicable threatened or endangered species that are found in the action area.

Incidental take was not provided for the Everglade snail kite, the CSSS and the wood stork, however take is anticipated on these three species. Take will be enumerated when a final biological opinion is required for each phase of CEPP implementation. Incidental take of eastern indigo snake is likely during construction and operation, particularly construction of the A-2 FEB and the Miami Canal backfill. The amount of take includes 14,000 acres of the FEB currently in sugar cane and row crops that will become inundated and mostly unusable to indigo snakes. Up to 268 snakes could be harassed through being displaced as a result of the CEPP and up to two indigo snakes may be injured or killed (harmed).

Although the Programmatic Biological Opinion does not specify RPMs and TCs for the three avian species, endangered species monitoring costs include a conservative estimate of potential required monitoring based on information provided by USFWS to ensure the costs were captured. Estimated endangered species monitoring costs are \$3,111,200 pre construction, \$35,122,200 during the construction period and the O&M cost will be approximately \$1,885,200 annually.

A programmatic Endangered Species Act Section 7 consultation for the Comprehensive Everglades Restoration Plan (CERP) was prepared on March 15, 2013 to evaluate potential effects of CERP, including the proposed CEPP, on listed species and designated critical habitat under the NMFS' purview. The Corps provided a Programmatic Biological Assessment for the Comprehensive Everglades Restoration Plan to NMFS on 2 July 2013. NMFS provided a Programmatic Biological Opinion for the Comprehensive Everglades Restoration Plan to the Corps on 17 December 2013 that includes CEPP. In compliance with this Act and ongoing consultation throughout the PED and construction phase as appropriate.

C.4.9 Estuary Protection Act of 1968

The proposed project would provide increased opportunities to redirect water that is currently discharged to the Caloosahatchee and St. Lucie Estuaries for flood control purposes, allowing for the reestablishment of oyster and sea grass populations that are important for providing water quality and habitat functions within the Northern Estuaries. The project would increase flows from Southern Everglades National Park to Florida Bay and result in favorable changes to salinity levels to improve conditions for key species such as seagrasses, seatrout, pink shrimp, and crocodiles. The proposed project is in compliance with the goals of this Act.

C.4.10 Farmland Protection Policy Act of 1981

Coordination with the United States Department of Agriculture (USDA) and National Resources Conservation Service (NRCS)to meet the requirements of the Farmland Protection Policy Act, 7 U.S.C. § 4201, is ongoing. Prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops. The land is also used as cropland, pastureland, rangeland, forest land, or other land, but cannot be used as urban built-up land. According to 7 CFR 657.5, unique farmland is land other than prime farmland that is used for the production of specific high value food and fiber crops. These lands are not used in producing feed, food, fiber, forage, and/or oilseed crops. Almost all land in central and southern Florida used for agricultural production has been designated unique farmland. Coordination with NRCS was done during the planning phase and NRCS concluded that they would defer to PED due to the large footprint of the project action area and the relatively smaller construction footprint in order to more accurately determine level of acres affected. CEPP Alternative 4R2 contains many components, and when detailed design information that locates each of the plan components becomes available, it can then be determined how many acres of unique farmland would be affected. The NRCS will then complete Form AD 1006 to inventory the loss of acres of unique farmland from agricultural production. The Corps is in compliance and will be in full compliance with the Act at the time of construction

C.4.11 Federal Water Project Recreation Act of 1965, As Amended

The effects of the proposed action on outdoor recreation have been considered and are presented in **Appendix F**. The CEPP recreation plan identifies, evaluates, and addresses the impacts of CEPP implementation on existing recreational use within the South Florida ecosystem and identifies and evaluates potential new recreation, public use, and public educational opportunities. Continued recreation planning would be performed during detailed project engineering and design. This project would not adversely affect existing recreational opportunities. This project is in compliance with the goals of this Act.

C.4.12 Fish and Wildlife Coordination Act of 1958, As Amended

The central objective of the Fish and Wildlife Coordination Act is to allow for equal consideration of wildlife resources. Representatives from USFWS have been involved in project planning, development, and evaluation with particular interests in effects to fish and wildlife resources and natural wildlife management areas. Planning Aid Letters (PAL) were provided to the USACE on January 20, 2012, March 27, 2012 and December 12, 2012. USFWS provided a Final Fish and Wildlife Coordination Act Report (CAR) on December 17, 2013 and it has been included within Annex A. .The Corps' responses to the FWCAR Recommendations are in Annex A.3 - Recommendations and Responses under the Fish and Wildlife Coordination Act Report. The project is in compliance with the goals of this Act.

C.4.13 Magnunson-Stevens Fishery Conservation and Management Act

The Magnunson-Stevens Fishery Conservation and Management Act, 16USC 1801 et seq. Public Law 104-208 reflects the secretary of Commerce and Fishery Management Council authority and responsibilities for the protection of Essential Fish Habitat (EFH). Federal agencies that fund, permit, or carry out activities that may adversely impact EFH are required to consult with the NMFS regarding the potential effects of their actions on EFH. This project has been coordinated with NMFS. A draft EFH assessment was provided on February 20, 2013. After review of the draft PIR/EIS in September of 2013, NMFS determined the EFH provisions of the document were sufficient and that additional comments or EFH conservation recommendations were not needed. The EFH assessment is

included in **Appendix C.4.34.6.8**. NMFS provided a Programmatic Biological Opinion for the Comprehensive Everglades Restoration Plan to the Corps on 17 December 2013.

C.4.14 Marine Mammal Protection Act of 1972

West Indian manatees inhabit the coastal and major inland waters of south Florida including Central and Southern Florida Project canals. Manatees are not expected to be adversely affected by the proposed project. Early consultation with the USFWS has been initiated for the manatee, and a determination by USACE of not likely to adversely affect was made (Annex A – Biological Opinion). Incorporation of the safeguards used to protect threatened and endangered species during construction and operation would protect West Indian manatees within the area. The Corps is in compliance and will be in full compliance with the Act at the time of construction.

C.4.15 Marine Protection, Research and Sanctuaries Act

This Act is not applicable. Ocean disposal of dredged material is not proposed as a part of the recommended plan.

C.4.16 National Environmental Policy Act of 1969

This Act encourages public participation and comment on Federal projects, and requires agencies to cooperate with other Federal agencies, State, and local governments, and to involve public stakeholders. Initial public coordination began with the distribution of a scoping letter, dated November 23, 2011, announcing the preparation of an Environmental Impact Statement (EIS) and inviting public and agency comment (Appendix C.3). Public scoping meetings were held December 14, 2011 in Plantation, Florida and December 15, 2011 in Clewiston Florida. A Notice of Intent to prepare an EIS was published in the Federal Register (76 FR 75539) December 2, 2011. Five NEPA public workshops were held December 10, 2012 in Estero, Florida; December 11, 2012 in Homestead, Florida; December 12, 2012 in Clewiston, Florida; December 13, 2012 in Stuart, Florida; and December 18, 2012 in Coconut Creek, Florida to present the preliminary final array of alternatives. The Notice of Availability (NOA) of the Central Everglades Planning Project Draft Project Implementation Report and Environmental Impact Statement was published in the Federal Register (FR Volume 78, Number 169) August 30, 2013 and mailed to interested stakeholders to begin the 64 day review period. Five NEPA Draft PIR/EIS Public Meetings were held on September 16, 17, 18, 19 and 25 2013. The Corps is complying with the NEPA process and will be in full compliance with the Act at the time of construction. The Corps will update NEPA documentation as appropriate.

C.4.17 National Historic Preservation Act of 1966 (Inter alia)

The proposed project is in compliance with the National Historic Preservation Act, as amended (PL89-665). As part of the requirements and consultation process contained within the National Historic Preservation Act implementing regulations of 36 CFR 800, this project is also in compliance through ongoing consultation with the Archaeological and Historic Preservation Act, as amended (PL93-29), Archeological Resources Protection Act (PL96-95), American Indian Religious Freedom Act (PL 95-341), Executive Order 11593, 13007, and 13175, the Presidential Memo of 1994 on Government to Government Relations and appropriate Florida Statutes. Consultation with the Florida State Historic Preservation Officer (SHPO), appropriate federally recognized tribes, and other interested parties was initiated December 27, 2011 and is ongoing. See **Appendix C.5** for details of the ongoing consultation. Through consultation with SHPO and STOF THPO, it was agreed that Section 106 consultation would not be completed during the current feasibility phase of the project; however, consultation would be complete prior to construction. Any additional project specific surveys for cultural resources and site

evaluations will be conducted during the Pre-construction Engineering and Design Phase of the project. National Register eligible properties were taken into account while planning this undertaking. The Corps is currently in compliance and will continue to meet the requirements of this act throughout construction and operation.

C.4.18 Native American Graves Protection and Repatriation Act as Amended

Federal agencies must make an inventory of all Indian human remains and funerary objects in its possession and control, attempt to identify the affiliated tribe, and repatriate the items to the appropriate group. This Act also applies to inadvertent discoveries, in that there is a required delay in the disturbance of a site containing human remains until consultation with affiliated tribes is accomplished. The proposed project is in compliance.

C.4.19 Resource Conservation and Recovery Act, As Amended By the Hazardous and Soils Waste Amendments of 1984, CERCLA As Amended by the Superfund Amendments and Reauthorization Act of 1966, Toxic Substances Control Act of 1976

Hazardous, toxic and radioactive waste surveys would be conducted as required. The removal and excavation as described in the proposed action is not expected to result in the discovery or generation of HTRW materials. The proposed action would involve ground disturbances. The Corps is currently in compliance and will continue to meet the requirements of this act throughout construction and operation.

C.4.20.1 USACE – Comprehensive Everglades Restoration Policy – Residual Agricultural Chemicals, USACE-ASA-CW Policy, September 2011.

To address the issues presented by low-level residual agricultural chemicals present on CERP project lands, the Assistant Secretary of Army for Civil Works provided a policy memorandum on September 14, 2011. A copy of the policy is attached and incorporated into the formulation of the proposed project.

C.4.20 Rivers and Harbors Act of 1899

The proposed project would not obstruct navigable waters of the United States. The project has been subject to public notice and other evaluations normally conducted for activities subject to the Act. The proposed project is in compliance with the goals of this Act.

C.4.21 Submerged Lands Act of 1953

The proposed project would reduce freshwater flows to the Caloosahatchee Estuary and the St. Lucie Estuary and provide freshwater overland flow to Florida Bay that will ultimately benefit the ecological habitats that occur on submerged lands of the State of Florida. No construction is expected on submerged lands; therefore the project is in compliance with the goals of this Act.

C.4.22 Wild and Scenic Rivers Act of 1968, As Amended

There are no designated wild and scenic river reaches within the project area that would be affected by project related activities. This Act is not applicable.

C.4.23 E.O. 11514, Protection of the Environment

E.O. 11514 directs Federal agencies to "initiate measures needed to direct their policies, plans, and programs so as to meet national environmental goals." The objectives of the project are focused on environmental protection. The project is in compliance with the goals of this E.O.

C.4.24 E.O. 11593, Protection and Enhancement of the Cultural Environment

E.O. 11593 directs Federal agencies to provide leadership in preserving, restoring and maintaining the historical and cultural environment of the Nation. Agencies of the executive branch of the Government (hereinafter referred to as "Federal agencies") shall (1) administer the cultural properties under their control in a spirit of stewardship and trusteeship for future generations, (2) initiate measures necessary to direct their policies, plans and programs in such a way that federally owned sites, structures, and objects of historical, architectural or archaeological significance are preserved, restored, and maintained for the inspiration and benefit of the people, and (3), in consultation with the Advisory Council on Historic Preservation (16 U.S.C. 470i), institute procedures to assure that Federal plans and programs contribute to the preservation and enhancement of non-federally owned sites, structures and objects of historical, architectural or archaeological significance. The project is in compliance with this E.O.

C.4.25 E.O. 11988, Flood Plain Management

E.O. 11988 directs Federal agencies to avoid siting projects in floodplains and to avoid inducing further development of flood-prone areas. The project is not a development but rather a restoration action. Commitment of lands to project restoration would preclude such development. The proposed action would help restore and preserve the natural and beneficial uses of the floodplain. The project would be operated in a manner that would not increase flooding of private property. The project is in compliance with the goals of this E.O.

C.4.26 E.O. 11990, Protection of Wetlands

E.O. 11990 directs Federal agencies to avoid developing and locating projects in wetlands. The proposed project area is located within freshwater wetlands. The nature of this project is that it involves operations in wetlands, and no other practicable alternative to locating this project in avoidance of wetland exists. The objectives of the project are focused on environmental protection. A net functional benefit to wetlands within and adjacent to the project area is expected. The project is in compliance with the goals of this E.O.

C.4.27 E.O. 12962, Recreational Fisheries

E.O. 12962 requires the evaluation of federally funded, permitted, or authorized actions on aquatic systems and recreational fisheries. Effects to recreational fisheries would be negative or positive depending on the activity and location. Recreational fishing by boat would be negatively impacted by back filling the Miami canal and access in L-67C Canal could be lost by placement of the blue shanty levee (could be offset by installing a ramp from the Blue Shanty Levee into the L-67C Canal). Bank Fishing opportunities could be positively increased by addition of access points around proposed structures. The proposed project also has the potential to improve recreational fisheries in Florida Bay and southwestern coastal estuaries and provide slight improvements in recreational fisheries in the Caloosahatchee and St. Lucie Estuaries. Implementation of CEPP is expected to significantly improve conditions for fish species throughout much of the Greater Everglades. The largest percent gains in daily average fish density were predicted within northern Water Conservation Area 3A (WCA 3A) and Northeast Shark River Slough (NESRS). In these areas, fish densities increased in excess of 30%, with extremes over 80%. Other areas within Shark River Slough should also experience appreciable gains in fish density due to increased flows, thus enhancing fishing opportunities. This project is in compliance with the goals of this E.O.

C.4.28 E.O. 12898, Environmental Justice

E.O. 12898 directs Federal agencies to provide full participation of minorities and low-income populations in the Federal decision-making process, and further directs agencies to fully disclose any

adverse effects of plans and proposals on minority and low-income populations. There was sufficient public input to feel confident that scoping was successful and that the breadth of the potential impacts were communicated and understood by the public. During Scoping and subsequent public meetings no subjects or issues were presented as possible environmental impacts that may be disproportionate towards minority and or low income populations. The objectives of the project are focused on environmental protection. Implementation of the project would benefit all population groups by providing restoration of wetlands and other natural resources within the project area. CEPP would provide benefits to quality of life by improving the estuarine environment and contribute to hydrological and water quality improvements in the historic Everglades. The project would improve the quality of human life by providing improved estuarine conditions for fish and wildlife. It would translate into aesthetic and economic benefits for sport fishing and other recreational communities. No home owners would be displaced by the project.

The project would not result in adverse human health or environmental effects. The project would not disproportionately adversely affect any minority or low-income population. The low-income populations and minority populations are not disproportionately located within the region of influence of the proposed action. The proposed activity would not (a) exclude persons from participation in, (b) deny persons the benefits of, or (c) subject persons to discrimination because of their race, color, or national origin, nor would the proposed action adversely impact "subsistence consumption of fish and wildlife." Therefore, the project is in compliance with this Executive Order 12898, Environmental Justice.

C.4.29 E.O. 13045 Protection of Children

E.O. 13045, requires each Federal agency to "identify and assess environmental risks and safety risks [that] may disproportionately affect children and ensure that its "policies, programs, activities, and standards address disproportionate risks to children that results from environmental health risks or safety risks." The proposed project will not result in environmental health risks or safety risks or safety risks that may have a disproportionate affect on children. Children will not be in the vicinity of any of the construction operations and activities should not have an impact on children. The project is in compliance with the goals of this E.O.

C.4.30 E.O. 13089 Coral Reef Protection

There are no hardground or coral reef communities located within the proposed project site or the nearshore waters affected by the project. The project is not expected to adversely impact coral reefs or coral reef resources. This E.O. is not applicable.

C.4.31 E.O. 13122 Invasive Species

The proposed project has the potential to allow expansion of exotic and/or invasive species, due to construction and operational changes to the current water management system. Construction measures to reduce the spread of exotic and/or invasive species would be included in the contract specifications. A nuisance and exotic vegetation control plan has been prepared and is included in **Annex D**. The objectives of the plan are to prevent and/or reduce the establishment of non-native species within the project area. The project is in compliance with the goals of this E.O.

C.4.32 E.O. 13175, Consultation and Coordination with Indian Tribal Governments

E.O. 13175 sets forth fundamental principles to guide agencies in formulating and implementing policies that have tribal implications. The E.O. goes on to set forth policymaking criteria to which agencies must adhere to the extent permitted by law. These principles an policymaking criteria apply to an agency's "regulations, legislative comments or proposed legislation, and other policy statements or actions" that

have "substantial direct effects on one or more Indian tribes, on the relationship between the Federal Government and Indian tribes, or on the distribution of power and responsibilities between the Federal Government and Indian tribes" (Sec.1(a)). The project is in compliance with this E.O. See **Appendix C.3** and **Appendix C.5** for further details.

C.4.33 E.O. 13186, Responsibilities of Federal Agencies to Protect Migratory Birds

Migratory and resident bird species have been observed within the project area and are likely to use available habitat for foraging, nesting, and breeding. The proposed project is not expected to destroy migratory birds, their active nests, their eggs, or their hatchlings. The proposed project is expected to benefit migratory birds by improving habitat and increasing availability of forage species (amphibians, fish, aquatic and invertebrates) for wading birds. The project is in compliance with the goals of this E.O.

C.4.34 Memorandum on Government-to-Government Relations with Native American Tribal Governments 1994

This Presidential Memorandum directs the Federal government to operate within a government-to-government relationship with federally recognized Native American tribes. The head of each executive department and agency shall be responsible for ensuring that the department or agency operates within a government-to-government relationship with federally recognized tribal governments. Each executive department and agency shall apply the requirements of the E.O. 12875 ("Enhancing the Intergovernmental Partnership") and E.O. 12866 ("Regulatory Planning and Review") to design solutions and tailor Federal programs, in appropriate circumstances, to address specific or unique needs of tribal communities. The USACE has consulted with the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida during the NEPA process and during planning efforts for the CEPP. This project is in compliance with the goals of this memorandum. Coordination letters are included in **Appendix C.3** and **Appendix C.5**.

C.4.35 Seminole Indian Lands Claim Settlement Act of 1987

The Florida Indian (Seminole) Land Claims Settlement Act of 1987 directed the SFWMD the State of Florida, and the Seminole Tribe of Florida to execute an agreement for the purposes of resolving tribal land claims and settling the lawsuit filed by the Seminole Tribe of Florida, which involved certain land claims within the State. Agreements to resolve tribal land claims were executed between the three parties, which included conveyance of land and payment of consideration to the tribe, and implementing legislation by the Congress of the United States and Legislature of the State of Florida. An agreement known as the Water Rights Compact (Compact) was executed between the State of Florida, the District, and the Seminole Tribe of Florida. The Compact specifically defined tribal water rights. This Compact was adopted into Federal and state law. It includes a series of provisions establishing the Tribe's rights and creating several "entitlements" to water for each of the Tribe's reservations. Water supply deliveries to the Seminole Tribe of Florida's Big Cypress and Brighton Reservations within the CEPP study area are not significantly affected by CEPP. Any "modeled" decreases in water supply deliveries would not be expected under real-world conditions due to the Compact requirements. Complete performance summaries for water supply to the reservations is included in **Appendix C.2.2**. This project is in compliance with this Act.

C.4.36 Compliance with Florida Statues

The State of Florida has enacted several laws pertaining to implementation of CERP projects. These include amendments to Section 373.026 (8), Florida Stature (F.S.), which establish a requirement for the South Florida Water Management District (SFWMD) to submit a report for review and approval by the Florida Department of Environmental Protection (FDEP) prior to formal submission of a request for

authorization from Congress and prior to receiving an appropriation of state funds for construction and other implementation activities (except the purchase of lands from willing sellers); the enactment of Section 373.1501 F.S., which establishes the intent of the Florida Legislature with respect to CERP and the criteria for FDEP approval and the procedures to be followed by the SFWMD and FDEP for submitting and reviewing requests for approval; the enactment of Section 373.1502 F.S., which establishes permitting requirements and a process for the submittal, review, and issuance of certain regulatory permits for CERP projects; and the enactment of Section 373.470 and Section 373.472 F.S., establishing the "Save Our Everglades Trust Fund," funding and reporting requirements, and procedures for distributions from the trust fund.

The SFWMD's State Compliance Report addressing the criteria for approval listed in Section 373.1501 F.S. is included in **Annex B**. In addition to the above-described statutory requirements, other sections of Chapters 373 (Water Resources) and 403 (Environmental Control) of the Florida Statutes include requirements that may apply to various aspects of CERP project planning and implementation. In particular, Chapter 403 F.S. and the administrative laws adopted in accordance with Chapters 373 and 403 F.S., contain the requirements for facilities that involve the discharge or potential discharge of pollutants to surface and groundwaters, and the discharge of air pollutants, including facilities regulated under the Federal Clean Water and Safe Drinking Water Acts and the Federal Clean Air Act. Based on the information contained in this PIR, the recommended plan complies with the applicable provisions of the Florida Statutes. A detailed explanation of how the project complies with the applicable requirements for CERP projects contained in the Florida Statutes can be found in **Annex B**.

C.4.37 CLEAN WATER ACT SECTION 404(B)(1) EVALUATION

PREFACE This document is a programmatic Section 404(b)(1) Evaluation for the CEPP EIS. As such it addresses, at a general level, the potential environmental effects of the wetland and aquatic ecosystem alterations expected from dredge and fill and the construction of the structural components of the recommended plan. Subsequent site-specific Section 404(b)(1) Evaluations are intended to be done for individual project components, or groups thereof, in sufficient detail for final decision making and for full compliance with the Section 404(b)(1) Guidelines and National Environmental Policy Act requirements. This 404 (b)1 evaluation should be sufficient to qualify for, and in the event that subsequent decisions render the project in compliance with, coverage under Section 404(r) of the Clean Water Act and exempt from State and Tribal Water Quality Certification.

C.4.37.3.1 Location

The study area (**Figure C.4-1**) for the Central Everglades Planning Project (CEPP) encompasses the Northern Estuaries (St. Lucie River and Estuary (including Indian River Lagoon) and the Caloosahatchee River and Estuary), Lake Okeechobee, a portion of the Everglades Agricultural Area, the Water Conservation Areas; Everglades National Park (ENP), the Southern Estuaries (specifically focused on Florida Bay), and portions of the Lower East Coast.

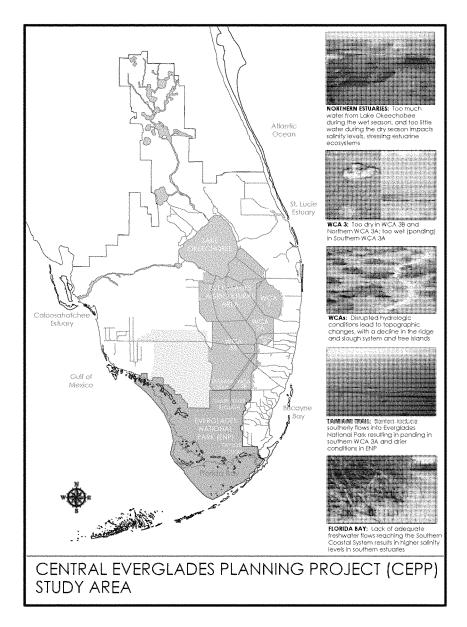


Figure C.4-1. Project Area Map

C.4.37.3.2 Project Description C.4.37.3.2.1 Plan Features

The components of the recommended plan, Alternative 4R2, are organized into four geographic areas: North of the Redline, South of the Redline, the Green/Blue lines and along the Yellowline.

 Everglades Agricultural Area (EAA) (North of the Redline) includes construction and operations to divert, store and treat Lake Okeechobee regulatory releases.

Storage and treatment of new water will be possible with the construction of a 14,000 acre FEB and associated distribution features on the A-2 footprint that is operationally integrated with the state-funded and state-constructed A-1 FEB and existing STAs. The A-2 FEB will accept EAA runoff and a portion of the Lake Okeechobee water currently discharged to the estuaries. This Lake Okeechobee water is diverted to the FEB when FEB/STAs and canals have capacity. The C-44 reservoir also collects water that would go to the St. Lucie Estuary, and CEPP modifies operations of the reservoir to return a portion of this water back to Lake Okeechobee, from which water can be delivered to the FEB or used to provide water supply deliveries.

It is anticipated that changes to the 2008 LORS will be needed in order to achieve the complete ecological benefits envisioned through implementation of CEPP. Operational changes to the LORS were incorporated into the hydrologic modeling conducted for the CEPP alternatives, including Alternative 4R2, in efforts to optimize CEPP system-wide performance within the current Zones of the 2008 LORS. More specifically, the hydrologic modeling of the CEPP alternatives included proposed revisions to the 2008 LORS decision tree outcome maximum allowable discharges dependant on the following criteria: Lake Okeechobee inflow and climate forecasts (class limits were modified for tributary hydrologic conditions, seasonal climate outlook, and multi-seasonal climate outlook), stage level (regulation zone), and stage trends (receding or ascending). While some refinements were made within the operational flexibility available in the 2008 LORS, assumptions ultimately extended beyond this flexibility due to adjustments made to the tributary/climatological classifications. Additional information and documentation of these assumptions are found in the **Appendix A** (Engineering) of the CEPP PIR. The CEPP PIR will not be the mechanism to propose or conduct the required NEPA evaluation of modifications to the Lake Okeechobee Regulation Schedule.

II. WCA 2A and Northern WCA 3A (South of the Redline) includes conveyance features to deliver and distribute existing flows and the redirected Lake Okeechobee water through WCA 3A.

Backfilling 13.5 miles of the Miami Canal between I-75 and 1.5 miles south of the S-8 pump station, and converting the L-4 canal into a spreader canal by removing 2.9 miles of the southern L-4 levee are the key features needed to ensure spatial distribution and flow directionality of the water entering WCA 3A.

Conveyance features to move water into and through the northwest portion of WCA 3A include: a gated culvert to deliver water from the L-6 Canal to the remnant L-5 Canal, a new gated spillway to deliver water from the remnant L-5 canal (during L-6 diversion operations); a new gated spillway to deliver water from STA 3/4 to the S-7 pump station during peak discharge events (eastern flow route is not typically used during normal operations), including L-6 diversion operations; approximately 13.6 miles of conveyance improvements to the L-5 Canal; a new pump station to maintain Seminole Tribe of Florida, STA-5, and STA-6 water supply deliveries west of the L-4 Canal; and new gated culverts and an associated new canal to deliver water from the Miami Canal (downstream of S-8, which

pulls water from the L-5 Canal) to the L-4 Canal, along with potential design modifications to the existing S-8 and G-404 pump stations.

The Miami Canal will be backfilled to approximately 1.5 feet below the peat surface of the adjacent marsh. Spoil mounds on the east and west side of the Miami Canal from S-8 to I-75 will be used as a source for Miami Canal backfill material. Refuge for terrestrial mammals and other upland species will continue to be provided by the retention of 22 of the highest priority Florida Fish and Wildlife Conservation Commission (FWC) enhanced spoil mounds between S-339 to I-75 and the creation of additional upland landscape (constructed tree islands) approximately every mile along the entire reach of the backfilled Miami canal section (S-8 to I-75) where historic ridges or tree islands once existed. The constructed tree islands will block flow down the backfilled canal due to the tree island having a profile across the landscape that varies, or undulates, in elevation. Miami Canal constructed tree island design details will be determined during CEPP preconstruction, engineering and design (PED) phase. Tree island design, construction/planting will be coordinated with appropriate science team members with expertise in these topics to accomplish the restoration vision and intent of CEPP's canal backfilling and tree island construction. A diverse array of species will be planted, including trees, shrubs, and herbaceous species that are appropriate for these tree islands. Additional details are located in **Appendix A**.

III. Southern WCA 3A, WCA 3B, and ENP (Green/Blue Lines) includes conveyance features to deliver and distribute water from WCA3A to WCA 3B and ENP.

A new Blue Shanty levee extending from Tamiami Trail northward to the L-67A levee will be constructed. This Blue Shanty levee will divide WCA 3B into two subunits, a large eastern unit (3B-E) and a smaller western unit, the Blue Shanty Flowway (3B-W). A new levee is the most efficient means to restore continuous southerly sheetflow through a practicable section of WCA 3B and alleviates concerns over effects on tree islands by maintaining lower water depths and stages in WCA 3B-E. The width of the 3B-W flow-way is aligned to the width of the downstream 2.6-Mile Tamiami Trail Next Steps bridge, optimizing the effectiveness of both the flow-way and bridge.

In the western unit, construction of two new gated control structures on the L-67A, removal of the L-67C and L-29 Levees within the flowway, and construction of a divide structure in the L-29 Canal will enable continuous sheetflow of water to be delivered from WCA 3A through WCA 3B-W to ENP. A gated control structure will also be added to the L-67A, outside the flowway, to improve the hydroperiod of the eastern unit of WCA 3B. Spoil mounds along the northwestern side of the L-67A Canal, in the proximity to the three new L-67A structures, will also be removed to facilitate sheetflow connectivity with the WCA 3A marsh.

Increased outlet capability at the S-333 structure at the terminus of the L-67A canal, removal of approximately 5.5 miles of the L-67 Extension Levee, and removal of approximately 6 miles of Old Tamiami Trail between the ENP Tram Road and the L-67 Extension Levee will facilitate additional deliveries of water from WCA 3A directly to ENP. Detailed design and construction of these features will consider improving recreation access and minimize project footprints due to the nature of these environmentally sensitive areas.

IV. Lower East Coast Protective Levee (Yellowline): Includes features primarily for seepage management, which are required to mitigate for increased seepage resulting from the additional flows into WCA 3B and ENP.

A newly constructed pump station with a combined capacity of 1,000 cfs will replace the existing temporary S-356 pump station, and a 4.2-mile partial depth seepage barrier will be built along the L-31N Levee south of Tamiami Trail.

There is an existing 2-mile seepage cut-off wall in the same vicinity that was constructed by a permittee as mitigation. There is a possibility that the same permittee may construct an additional 5 miles of seepage wall south of the 2-mile seepage wall, if permitted. Since the capability and effectiveness of the existing seepage wall to mitigate seepage losses from ENP remains under investigation, the CEPP recommended plan conservatively includes an approximately 4.2mile long, 35 feet deep tapering seepage barrier in the event construction is necessary.

The specific feature locations are shown in **Figure C.4-2** through **Figure C.4-5** (also see end of **Section 6** foldout figure). Further details of features are available in **Appendix A**.

NORTH OF THE REDLINE

STORAGE AND TREATMENT/FLOW EQUALIZATION BASIN (FEB)

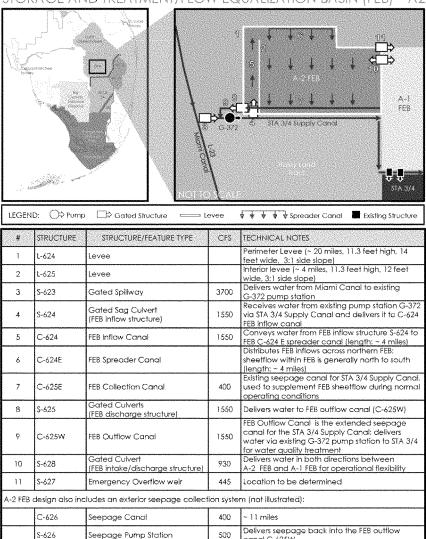


Figure C.4-2. Recommended plan Treatment and Storage Features and Location

canal C-625W

SOUTH OF THE REDLINE DISTRIBUTION AND CONVEYANCE LEGEND: ○⇒ Pump Levee Removal Gated Structure Existing Structure STRUCTURE STRUCTURE/FEATURE TYPE CFS TECHNICAL NOTES Delivers water from L-6 Canal to ì S-620 Gated Culvert 500 L-5 Canal Closed to direct STA 3/4 discharges to western L-5 Canal during normal operations; controls water from 2 S-621 Gated Spillway 2500 STA 3 /4 to the existing S-7 pump station during peak events Delivers water from east 3 S-622 Gated Spillway 500 to west in L-5 Canal (replaces existing L-5 canal plug) Existing S-8 pump station delivers water from L-5 Canal to Miami Canal: S-8A delivers water from Miami Canal to L-4 Canal (3120 cfs) and 3080 & A 5-8A Gated Culverts with Canal remaining Miami Canal segment (1040 cfs); 1020 potential design modifications to the existing S-8/G-404 complex will be assessed during PED Delivers water from L-4 Canal west to maintain 5 S-630 Pump Station 360 existing water supply deliveries Removes ~2.9 miles of south L-4 Levee 6 L-4 Levee Removal Remove ~ 13.5 miles of Miami Canal, from 1.5 miles south of S-8 to I-75; tree island mounds

3000 Canal (between S-622 & S-8) Figure C.4-3. Recommended plan Northern Conveyance and Distribution Features and Location.

500

create habitat and promote sheetflow in

WCA-3A within the footprint of the former

Enlarging canal to expand capacity of L-5

Canal (between \$-621 & \$-622) Enlarging canal to expand capacity of L-5

Miami Canal

Miami Canal Backfill with

Tree Islands Mounds

L-5 Remnant Canal

L-5 Canal

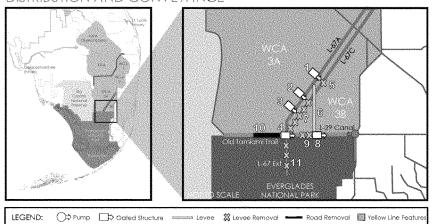
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9

BLUE AND GREEN LINES

DISTRIBUTION AND CONVEYANCE



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#	STRUCTURE	STRUCTURE/FEATURE TYPE	CFS	TECHNICAL NOTES	
1	S-631	Gated Culvert	500	Delivers water from WCA 3A to 3B, east of L-67D Levee	
2	S-632	Gated Culvert	500	Delivers water from WCA 3A to 3B, west of L-67D Levee	
3	S-633	Gated Culvert	500	Delivers water from WCA 3A to 38, west of L-67D Levee	
4	S-333 (N)	Gated Spillway w/new canal	1150	Delivers water from L-67A Canal to L-29 Canal; supplements existing S-333 gated spillway	
5		L-67C Levee Removal Gap		Gap, ~ 6000 feet (corresponding to S-631)	
6	L-67D	Blue Shanty Levee		Levee, ~ 8.5 miles, connecting from L-67A to L-29 (6 feet high, 14-foot crest width, 3:1 side slopes)	
7		L-67C Levee Removal		Complete removal of ~ 8 miles from New Blue Shanty Levee (L-67D)south to intersection of L-67A/L-67C; L-67C canal is not backfilled	
8	S-355W	Gated Spillway	1230	Maintains water deliveries to eastern L-29 Canal	
9		Levee Removal (L-29)		Removal of ~ 4.3 miles between L-67A and Blue Shanty Levee intersection with L-29 Levee	
10		Removal of remnants of Old Tamiami Trail roadway		Removal of ~ 6 miles of roadway west of L-67 Extension	
11		L-67 Extension Levee Removal and Canal Backfill)		Complete removal of ~ 5.5 miles of remaining L-67 Extension, including S-346 culvert	

Figure C.4-4. Recommended plan Southern Distribution and Conveyance Features and Location.

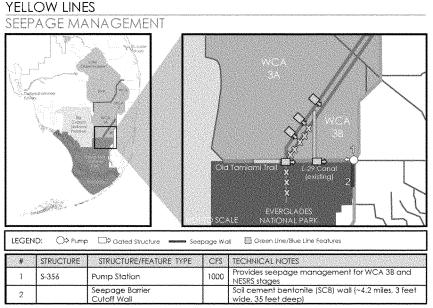


Figure C.4-5. Recommended plan Seepage Management Features and Location.

C.4.37.3 Authority and Purpose

The Comprehensive Everglades Restoration Plan (CERP) was approved in Section 601 of Water Resources Development Act (WRDA) of 2000. The authority for the preparation of the Central Everglades Planning Project (CEPP) Project Implementation Report (PIR), one of a number of site-specific projects, is contained in Section 601(d) WRDA 2000. The U.S. Army Corps of Engineers (USACE) and the South Florida Water Management District (SFWMD) have executed a Design Agreement for the design of elements of the CERP and South Florida Ecosystem Restoration project (Design Agreement, May 2000). The direction and guidance for the development of CEPP are contained within the CERP Master Program Management Plan (MPMP), which was developed and approved by USACE and SFWMD for the purposes of describing the framework and processes to be used for managing and monitoring implementation of CERP.

The Central and Southern Florida (C&SF) Flood Control Project, as constructed, had unintended adverse impacts to the Greater Everglades including the Northern Estuaries, WCA 3, ENP, and Florida Bay. Historically, freshwater flowed southward from Lake Okeechobee to Florida Bay from surface (sloughs, transverse glades, and overland from through wetlands) and groundwater sources and resulted in a mosaic of vegetative communities as well as narrower range of salinity fluctuations in Florida Bay than exist today. While historic conditions sustained healthy and extensive ecological communities (ridge and slough, wet prairies, tree islands, sawgrass prairies, mangrove communities and seagrass beds) these communities have been degraded under the managed system. The purpose of CEPP is to improve the quantity, quality, timing, and distribution of water flows to the central Everglades (WCA 3 and ENP).

C.4.37.4 General Description of Dredged or Fill Material

Several project features are expected to involve the discharge of dredged or fill material into wetlands or other aquatic resources such as the Miami Canal or excavation in wetlands for conveyance purposes. However, specific information is unknown at this time. Additional 404(b)1 documents would be done for individual features when actual fill material needs are identified. The specific characteristics (general characteristics discussed below), quantities, and sources of dredged or fill material would be determined during planning and design activities for each component.

C.4.37.4.1 General Characteristics of Material

The soils in the Everglades are primarily composed of peats and mucks. Deep, clean sands characterize the area east of the Everglades and south of Lake Okeechobee with wet, gray or grayish-brown, sandy soils underlain by sandy clay cover the area west of the Everglades. The peat and muck soils, which are dark brown to nearly black, cover approximately 90 percent of the area being considered in the study area. They were formed in marshes or swamps by the partial decay of plant materials, with some admixture of mineral soil in the case of muck. Peat, by definition, consists of 65 percent or more organic material with relatively little mineral matter. Muck on the other hand, consists of 25 to 65 percent plant material mixed with sand, silt, and clay. The peat and muck soils may differ from each other in the kind of plant material that they contain, in the corresponding depths, and/or in the nature of the underlying material. The peat and muck may rest directly on limestone or on an intermediate layer of sand or marl. The highly organic soils have been divided into four types: Okeechobee muck, Okeelanta peaty muck, Everglades peaty muck, and Everglades peat. A fifth type of organic soil, which is not extensive in the area, is Loxahatchee peat. Where peat is encountered in the borrow area, it would be removed and not used as construction material.

The material may be reused or would be disposed of offsite in a Class 1 landfill. Soil testing would be conducted to better define the soil characteristics and as a result of that soil testing, other disposal options may be pursued.

C.4.37.4.2 Quantity of Material (cubic yards)

Material would be produced for disposal with the construction of the A-2 FEB components; the construction of L-6 diversion and hydropattern restoration feature components; and construction of distribution, conveyance and seepage management components in southern WCA 3 and ENP.

C.4.37.4.3 Source of Material

The material consists of peat and muck excavated from within EAA, WCA-3 and ENP. The features of the recommended plan would be installed from the edge of Miami Canal (N), STA 3/4 Supply Canal and Outflow Canal, L-6, L-5, L-4, L-28, L-67A, L-67C, L-67 Extension and L-29 canals, as well as Tamiami Trail. Existing mounds of excavated material would be used to backfill and augmented when necessary with clean fill.

C.4.37.5 Description of the Proposed Discharge Site

C.4.37.5.1 Location

The excess excavated material would be deposited in an approved Class 1 landfill, either being disposed of incurring tipping fees or being used as good landfill cover daily. Placement of material in a landfill is not a discharge per se. The exact Class I landfill has not yet been identified. The excavated material would be assumed to be in the "worse case" condition encountered on other projects within the area.

Soil testing would be performed prior to construction of each component. As a result of soil testing, other disposal options may be pursued for clean dredged or excavated material including placement in the Miami Canal in which case the specific soil characteristics would be evaluated for discharge impacts.

C.4.37.5.2 Size

The exact Class I landfill has not yet been identified; therefore, the size of the Class I landfill is not available at this time. It is anticipated that CEPP would be constructed in stages as described within the Implementation Plan (refer to **Section 5 of the Draft PIR/EIS**) and that due to construction sequencing, several potential interim staging, stockpile, or temporary disposal sites may be required.

C.4.37.5.3 Site

A confined site would be used. The excess excavated material would be hauled by truck from the site and deposited or disposed of in an approved Class I landfill. Disposal of material in a landfill is not a fill per-se evaluated under the Clean Water Act.

C.4.37.5.4 Habitat

The excavated material deposition or disposal site would be an approved Class I landfill. Excavated material of good quality would also be deposited in the Miami Canal and the L-67 Extension that were former conveyance canals and degraded wetlands.

C.4.37.5.5 Timing and Duration of Discharge

Installation timing of the project features has yet to be determined. The time and duration of discharge would be further defined during the detailed design phase.

C.4.37.6 Description of Disposal Method

The excavated material would be hauled by truck to an approved Class I landfill. Similarly, if the excavated material is used as fill, it would be trucked to placement or staging stockpile areas.

C.4.37.7 Factual Determinations (Section 230.11)

C.4.37.7.1 Physical Substrate Determinations

C.4.37.7.1.1 Substrate Elevation and Type

The natural topography of the area is nearly flat with slopes less than two percent, with the exception of the unnatural features (canals and levee, Table C.4-1).

C.4.37.7.1.2 Sediment Type

The substrate at the installation site, including EAA, the WCAs, and ENP, is calcium carbonate limestone rock overlain with peat and muck soils.

C.4.37.7.1.3 Dredge/Fill Material Movement

No appreciable movement of material is anticipated during construction. The material is intended to be removed to the limestone rock. Excavation of rock for structures may be necessary. Once the project features are installed and the Miami Canal backfill completed and stabilized, movement of fill and surface soils is not expected. Some minor erosion may occur in specific areas if high rain events induce flooding during, or immediately after, construction. Best management practices would be employed during construction to control movement of sediment into undisturbed areas and areas outside the construction footprint.

C.4.37.7.1.4 Physical Effects on Benthos

No adverse impacts to benthic organisms are anticipated other than displacement of those organisms in the construction footprint of the proposed project. The benthos in the canals being filled would be buried under the fill material; however these highly prolific organisms are expected to quickly reestablish in the natural wetlands restored through improved hydrology.

C.4.37.7.2 Water Circulation, Fluctuation, and Salinity Determination

An ecological monitoring plan (Annex D) has been developed to monitor hydrology, water quality, and associated changes within the project area.

C.4.37.7.3 Suspended Particulate/Turbidity Determinations

During project construction, a temporary short-term increase in suspended particulates may occur in the canals and ponded areas associated with levee removal and canal backfilling. Best management practices would be used to minimize the suspension and transport of soils, levee materials, and roadway materials into water adjacent to or downstream of the construction area including use of sediment controls, turbidity screens, or sediment blockages for adjacent wetlands.

In general, any short-term impacts to water quality associated with construction of the project would be ameliorated by construction sequencing, best management practices for erosion and sedimentation control, and monitoring during construction. Longer-term impacts to water quality not associated with fill and associated with the operation of project features would be addressed through operational monitoring and adaptive management actions, if potentially adverse affects are observed or predicted.

C.4.37.7.3.1 Expected Changes in Suspended Particulates and Turbidity Levels in the Vicinity of the Disposal Site

Although site-specific information is unknown at this time, temporary localized increases in suspended particulates and turbidity levels can be expected during construction of some of project features. Such increases are generally short term and insignificant. All appropriate measures to reduce and contain turbidity would be employed so State Water Quality Standards would not be violated.

C.4.37.7.3.2 Effects on Chemical and Physical Properties of the Water Column

C.4.37.7.3.2.1 Light Penetration

During construction operations there would be a temporary insignificant reduction in light penetration in the canals in the immediate vicinity of the activity. Once construction is complete, light penetration is expected to return to pre-construction levels.

C.4.37.7.3.2.2 Dissolved Oxygen

During construction operations there would be a temporary reduction in the dissolved oxygen content in the water column due to organic sediment oxygen demand from the disturbed soils in the immediate vicinity of the activity. Once construction is complete, dissolved oxygen is expected to return to preconstruction levels.

C.4.37.7.3.2.3 Toxic Metals, Organics, and Pathogens

Generally no toxic metals, anthropogenic organics, or pathogens are anticipated at this time to be released by project construction. Additional discussion on these items would be provided during further planning and design on project components.

C.4.37.7.3.2.4 Aesthetics of the Water Column

During construction, visual aesthetics would be negatively impacted. After completion, aesthetics would improve due to a reduction in exotic species.

C.4.37.7.3.3 Effects on Biota

C.4.37.7.3.3.1 Primary Productivity and Photosynthesis

Disposal of excavated materials would adversely affect wetlands in the immediate vicinity of construction by destroying vegetation and smothering biota. However, project operation would improve the primary productivity and photosynthesis due to an increase in quality of wetland habitat.

C.4.37.7.3.3.2 Suspension/Filter Feeders

During construction operations there would be a temporary increase in turbidity and possibly a decrease in suspension/filter feeders due to construction activities. This temporary increase in turbidity would be short-term and should not have any long-term negative impact on these highly fecund organisms. The implantation of the project should benefit these organisms by creating a better quality wetland habitat.

C.4.37.7.3.3.3 Sight Feeders

During construction operations there would be a temporary increase in turbidity and possibly a decrease in sight feeders due to construction activities. No significant impacts on these organisms are expected as the majority of sight feeders are highly mobile and can move outside the affected area. When the project is operational, sight feeders would benefit from the better quality wetland habitat.

C.4.37.7.4 Contamination Determinations

From the 1920s through the 1960s, most of the land parcels incorporated in the FEB project footprint were cultivated for agricultural use. A few parcels continue to be farmed; however, crops and/or cultivation practices have changed dramatically. Residual pesticide contamination associated with past and present crop production can be detected in the soils on many of the parcels; however, at concentrations that are not likely to present unacceptable risks to human health or environmental receptors. For parcels that are frequently inundated under present hydrologic conditions, the proposed project is not likely to significantly increase the risk of environmental harm associated with the fate and transport of the residual contamination. For parcels that are not frequently inundated under present hydrologic conditions, the proposed project may increase the risk of environmental harm associated with the fate and transport of residual contamination; however, the USFWS has reviewed the testing and analysis performed on these lands and determined that remedial actions do not appear to be warranted. Additional hazardous, toxic and radioactive waste (HTRW) investigations may be conducted to determine what project top-soils might require isolation (by encapsulating in levee berms) to minimize the risk of contaminant bioaccumulation or mobilization.

C.4.37.7.5 Aquatic Ecosystem and Organism Determinations

No long-term adverse impacts on aquatic organisms are anticipated. Wetland and estuarine ecosystems are expected to greatly improve because of implementation of recommended plan, Alternative 4R2. The proposed project is not expected to cause or contribute to violations of State Water Quality Standards, jeopardize the existence of any federally endangered or threatened species, nor impact a marine sanctuary. No significant degradation is expected and all appropriate and practicable steps would taken to minimize impacts. Improvements to upland and wetland habitats are predicted with the construction

of Alternative 4R2. The filling of the canals and removal of the roads is expected to reestablish a more natural sheetflow, which would restore wetland habitat and improve estuarine water quality.

C.4.37.7.5.1.1 Effects on Plankton

No adverse impacts to plankton are anticipated. Concentration of freshwater diatoms should increase, at a minimum, in a narrow zone associated with water deliveries into ENP.

C.4.37.7.5.1.2 Effects on Benthos

No adverse impacts to benthic organisms are anticipated other than displacement of those organisms in the construction footprint of the proposed project. Reduction of freshwater flows to the Caloosahatchee Estuary and the St. Lucie Estuary and an increase of freshwater flows to Florida Bay would provide improved habitat for the benthos.

C.4.37.7.5.1.3 Effects on Nekton

There should be no adverse impacts to freshwater swimming aquatic organisms including fishes during construction. Additionally, no adverse impacts are expected downstream in the waters of Florida Bay and the adjacent coastline. Estuarine fish species most likely to occur in these areas include the small forage species such as killifish (*Cyprinodon* spp. and *Fundulus* spp.), mosquito fish (*Gambusia affinish*), juvenile sciaenids (*Leiostomus* spp.), silversides (*Atherinidae*) and mullets (*Mugil* spp.). Larger secondary consumers include gray snapper (*Lutjanus griesus*), tarpon (*Megalops atlantica*), snook (*Centopomus* spp.), red drum (*Sciaenops ocellatus*) and spotted seatrout (*Cynoscion nebulosus*). Freshwater deliveries through ENP would provide improved habitat and nursery opportunities for fishes in downstream estuaries connecting coastal wetlands to the bay.

C.4.37.7.5.1.4 Effects on Aquatic Food Web

Periphyton forms the base of the food web within the project area. Implementation of the project is expected to increase periphyton mat biomass and productivity throughout the site as well as freshwater diatoms. No adverse impacts to the aquatic food web are anticipated, other than minor temporary impacts within the construction footprint of the proposed spreader channels.

C.4.37.7.5.2 Effects on Special Aquatic Sites

C.4.37.7.5.2.1 Hardground and Coral Reef Communities

There are no hardground or coral reef communities located within the proposed project site or the nearshore waters affected by the project. Corals found within the waters of Biscayne Bay are outside of the area of potential effect.

C.4.37.7.5.2.2 Sanctuaries and Refuges

Biscayne National Park and a portion of Everglades National Park are downstream of the project area and are recognized as tropical marine environments of national significance well known for their productive reef ecosystems that play a critical role in the dynamics of the larger Florida Keys reef ecosystem. The project is intended to improve the quantity, timing, and distribution of water delivered to Florida Bay and should not have a negative effect on the sanctuaries and refuges.

C.4.37.7.5.2.3 Wetlands

The dominant vegetation community in the region is a matrix of sawgrass prairie with tree islands. At the lowest elevations near the coast, mangroves replace the freshwater wetlands. The transition zone between the mangroves and the freshwater prairie is a needle rush-salt grass zone on the freshwater

side, but stunted scrub mangrove on the coastal side. As a result of the project, approximately 127 acres of wetlands would be removed by construction and excavation activities. This loss is considered minimal and is not anticipated to have any adverse effects. The proposed project is anticipated to provide positive ecological benefits, including improving hydroperiods and hydropatterns in ENP, by improving the quantity, timing, and distribution of water delivered to the downstream estuaries, Florida Bay, and other receiving waters.

C.4.37.7.5.2.4 Mud Flats

There are no mud flats within the construction footprint or areas impacted by the proposed project.

C.4.37.7.5.2.5 Vegetated Shallows

Submerged aquatic vegetation (SAV) is present throughout the nearshore waters. The trend shows the following species in order from the shoreline to the deeper waters: widgeon grass (Ruppia maritime), turtle grass (Thalassia testudinum), manatee grass (Syringodium filiforme), shoal grass (Halodule wrightii) and Johnsons seagrass (Halophila johnsonii). Reduction of freshwater flows to the Caloosahatchee Estuary and the St. Lucie Estuary and an increase of freshwater flows to Florida Bay would provide improvements to SAV. .

C.4.37.7.5.2.6 Riffle and Pool Complexes

There are no riffle or pool complexes within the project footprint and none should be impacted by the proposed project.

C.4.37.7.5.3 Threatened and Endangered Species

There are 41 federally listed threatened and endangered species potentially present in the project area. The USACE and U.S. Fish and Wildlife Service (USFWS) are presently consulting on a determination of 'no effect' or 'not likely to adversely affect' decision for all federally listed species within the project area, with the exception of the Cape Sable seaside sparrow for which a may affect, likely to adversely affect determination has been made. A Biological Assessment is included within **Annex A** to document potential effects to threatened and endangered species. A Biological Opinion from the USFWS on the effect of implementation of the proposed project on any endangered and/or threatened species would be determined and included in **Annex A** of the Final Project Implementation Report and Environmental Impact Statement.

C.4.37.7.6 Proposed Disposal Site Determinations

Excavated material would be used to fill approximately 13.5 miles of the Miami Canal and the L-67 extension and bring the road side ditches to ambient grade along both sides of all roads to be removed. There would be no long-term adverse impacts to the project area resources as a result of the placement of the excavated material.

C.4.37.7.6.1 Mixing Zone Determination

The dredged material would not cause unacceptable changes in the mixing zone water quality requirements as specified by the State of Florida's Water Quality Certification permit procedures. No adverse impacts related to depth, current velocity, direction and variability, degree of turbulence, stratification, or ambient concentrations of constituents are expected from implementation of the project.

C.4.37.7.6.2 Determination of Compliance with Applicable Water Quality Standards

CEPP complies with water quality standards applicable to the project and adjacent waters. Proposed features are located in and adjacent to waters designated as Class III by the State of Florida. In accordance with Florida Administrative Code (F.A.C.) Rule 62-302 ("Surface Water Quality Standards"), the use classification of Class III waters is "Recreation, Propagation, and Maintenance of a Healthy, Well-Balanced Population of Fish and Wildlife." In addition to the minimum and general criteria for surface waters found in Section 62-302.500(1) F.A.C., there are numerous water quality criteria for specific parameters for Class III waters listed in Section 62-302.530, F.A.C. Although the proposed plan is not expected to affect most of the parameters listed in this rule, certain parameters (e.g., turbidity, dissolved oxygen and nutrients) listed in the criteria may be affected by construction and operations activities. The construction and operation of the proposed project components would comply with Federal and state water quality standards.

C.4.37.7.7 Potential Effects on Human Use Characteristics

C.4.37.7.7.1 Municipal and Private Water Supply

No municipal or private water supplies would be adversely impacted by the implementation of the project. Refer to **Section 4** and **Appendix C.2.1** for additional information pertaining to CEPP water supply analyses.

C.4.37.7.7.2 Recreational and Commercial Fisheries

Recreational fishing by boat would be negatively impacted by backfilling the Miami Canal and access in L-67C Canal could be lost by placement of the Blue Shanty levee (could be offset by installing a ramp from the Blue Shanty Levee into the L-67C Canal). Bank fishing opportunities could be positively increased by addition of access points around proposed structures. The proposed project would benefit recreational and commercial fisheries through salinity improvements within the Northern and Southern Estuaries.

C.4.37.7.7.3 Water Related Recreation

Water related recreation may be reduced by some project features and improved by other project features. Further detail is included in **Appendix F**.

C.4.37.7.7.4 Aesthetics

The proposed project would enhance the overall aesthetics of the project area. The backfilling of canals, degradation of levees and the creation of a flow way in WCA 3B would restore sheetflow to the greater Everglades ecosystem. Exotic plant control may enhance the aesthetics of the area.

C.4.37.7.7.5 Parks, National and Historical Monuments, National Seashores, Wilderness Areas, Research Sites, and Similar Preserves

The project would enhance environmental conditions at these types of sites within the project area. For more information refer to Section C.4.32.8.5.2.2 Sanctuaries and Refuges.

C.4.37.7.8 Essential Fish Habitat

C.4.37.7.8.1 Essential Fish Habitat in the Area

The project area includes two distinct regional estuarine and nearshore coastal systems: The southern estuaries including Biscayne Bay and Florida Bay; and the northern estuaries including the Caloosahatchee River and the St. Lucie Estuary.

The southern estuaries, a shallow estuarine system (average depth less than three feet), comprise Biscayne National Park and a large portion of Everglades National Park. Florida Bay is the main receiving water of the Greater Everglades, heavily influenced by changes in timing, distribution, and quantity of freshwater flows into the southern estuaries. Lake Okeechobee discharges into the two northern estuaries. The St. Lucie Canal feeds into the St. Lucie Estuary, and the Caloosahatchee Canal/River feeds into the Caloosahatchee Estuary to the west.

Biscayne Bay and Florida Bay

The southern estuaries contain essential fish habitat for corals; coral reef and live bottom habitat; red drum (*Sciaenops ocellatus*); penaeid shrimps (*Penaeus* spp.); spiny lobster (*Panulirus argus*); other coastal migratory pelagic species and the snapper-grouper complex. Species generally present in the southern estuaries region include brown shrimp (*Penaeus aztecus*), pink shrimp (*Penaeus duorarum*), white shrimp (*Penaeus* sp.), spiny lobster, stone crab (*Menippe mercenaria*), gulf stone crab, red drum, Spanish mackerel (*Scomberomorus maculatus*), and gray snapper (*Lutjanus griseus*). Essential fish habitat in the southern estuaries is comprised of seagrasses, estuarine mangroves, intertidal flats, the estuarine water column, live/hard bottoms, and coral reefs.

Caloosahatchee River

The Caloosahatchee River estuary contains essential fish habitat for juvenile brown shrimp, juvenile gray snapper (*Lutjanus griseus*), smalltooth sawfish (*Pristia pectinata*), juvenile pink shrimp, adult and juvenile red drum, adult and juvenile Spanish mackerel, and juvenile stone crab. Downstream habitats include oyster reefs and seagrass beds (submerged aquatic vegetation).

St. Lucie Estuary

The proposed project is within the jurisdiction of the South Atlantic Fishery Management Council (SAFMC) and is located in areas designated as EFH for wormrock, live bottom habitat, for the American oyster (*Crassostrea virginica*); pink shrimp; white shrimp, and brown shrimp; Florida red drum; grouper (*Epinephelus* spp.); gray snapper (*Lutjanus griseus*); white grunt (*Haemulon plumieri*); red porgy (*Pagrus pagrus*); spiny lobster; and the snapper-grouper complex. In addition, the nearshore hardbottom habitat outside of the St. Lucie Estuary is designated as Essential Fish Habitat-Habitat Areas of Special Concern (EFH-HAPC) for the snapper-grouper complex.

C.4.37.7.8.2 Assessment of Effects on Hardground and Coral Reef Communities

This project is not expected to have an effect on coral reef or hard bottom communities in the project area. There are no coral reefs or hard bottom communities located within the proposed project site or the nearshore waters affected by the project. Corals found within Florida Bay and Biscayne Bay are outside the area of potential effect.

C.4.37.7.8.3 Assessment of Effects on Sanctuaries and Refuges

Biscayne National Park and a portion of Everglades National Park are downstream of the project area and are recognized as tropical marine environments of national significance well known for their productive reef ecosystems that play a critical role in the dynamics of the larger Florida Keys reef ecosystem. The proposed project is intended to improve the quantity, timing, and distribution of water delivered to Florida Bay.

C.4.37.7.8.4 Assessment of Effects on Wetlands

The dominant vegetation community in the region is a matrix of sawgrass prairie with tree islands. At the lowest elevations near the coast mangroves replace the freshwater wetlands. The transition zone between the mangroves and the freshwater prairie is a needle rush-salt grass zone on the freshwater side, but stunted scrub mangrove on the coastal side. As a result of the project approximately 127 acres of wetlands would be removed by construction and excavation activities. This loss is considered minimal and is not anticipated to have any adverse effects. The proposed project is anticipated to provide positive ecological benefits, including improving hydroperiods and hydropatterns in ENP, by improving the quantity, timing, and distribution of water delivered to the downstream estuaries, Florida Bay, and other receiving waters.

C.4.37.7.8.5 Assessment of Effects on Mud Flats

There are no mud flats within the construction footprint or areas impacted by the project.

C.4.37.7.8.6 Assessment of Effects on Vegetated Shallows

SAV is present throughout the nearshore waters. The trend shows the following species in order from the shoreline to the deeper waters: widgeon grass (Ruppia maritime), turtle grass (Thalassia testudinum), manatee grass (Syringodium filiforme), shoal grass (Halodule wrightii) and Johnsons seagrass (Halophila johnsonii). Reduction of freshwater flows to the Caloosahatchee Estuary and the St. Lucie Estuary and an increase of freshwater flows to Florida Bay would provide improvements to SAV. Without operational changes and/or active pumping the project is not anticipated to have any effect on SAV.

C.4.37.7.8.7 Assessment of Effects on Riffle and Pool Complexes

There are no riffle or pool complexes within the project footprint and none should be impacted by the project.

C.4.37.7.9 Assessment of Effects on Plankton

No adverse impacts to plankton are anticipated. Concentration of freshwater diatoms should increase at a minimum in a narrow zone associated with water deliveries into ENP.

C.4.37.7.10 Assessment of Effects on Benthos

No adverse impacts to benthic organisms are anticipated other than displacement of those organisms in the construction footprint of the project.

C.4.37.7.11 Assessment of Effects on Nekton

There should be no adverse impacts to freshwater swimming aquatic organisms including fishes during construction. Additionally, no adverse impacts are expected downstream in the waters of Florida Bay and the adjacent coastline. Estuarine fish species most likely to occur in these areas include the small forage species such as killifish (*Cyprinodon* spp. and *Fundulus* spp.), mosquito fish (*Gambusia affinish*), juvenile sciaenids (*Leiostomus* spp.), silversides (*Atherinidae*) and mullets (*Mugil* spp.). Larger secondary consumers include gray snapper (*Lutjanus griesus*), tarpon (*Megalops atlantica*), snook (*Centopomus* spp.), red drum (*Sciaenops ocellatus*) and spotted seatrout (*Cynoscion nebulosus*). Freshwater deliveries through ENP would provide improved habitat and nursery opportunities for fishes in downstream estuaries connecting coastal wetlands to the bay.

C.4.37.7.12 Determination of Effects on Essential Fish Habitat

The overall benefit to the regional system is expected to be far greater than the localized adverse effects. The restoration of hydrology of the Greater Everglades ecosystem and the increase in spatial extent of protected wetland acreage in the region would produce extensive cumulative beneficial effects. These beneficial effects are expected to substantially outweigh the cumulative adverse effects produced by the aquatic ecosystem alterations that may be necessary to construct some of the project components.

C.4.37.8 Determination of Cumulative Effects on the Aquatic Ecosystem

The overall benefit to the regional system is expected to be far greater than the localized adverse effects. The hydrologic restoration of the Greater Everglades ecosystem and the increase in spatial extent of protected wetland acreage in the region would produce extensive cumulative beneficial effects. These beneficial effects are expected to substantially outweigh the cumulative adverse effects produced by the aquatic ecosystem alterations that may be necessary to construct some of the project features.

C.4.37.9 Determination of Secondary Effects on the Aquatic Ecosystem

No adverse secondary impacts on the aquatic ecosystem would occur as a result of the construction. During construction the sites would be contained with sedimentation barriers. Erosion would be controlled by appropriate erosion control techniques. Sedimentation would be controlled during construction. An ecological and water quality monitoring plan would be implemented during and after construction and specific environmental commitments, engineering and design commitments, and operational commitments would be incorporated to avoid, minimize, and/or mitigate for adverse effects.

C.4.37.10 Findings of Compliance or Non-Compliance with the Restrictions on Discharge

- C.4.37.10.1 No significant adaptations of the guidelines were made relative to this evaluation.
- **C.4.37.10.2** At the time of the project planning phase no practicable alternatives exist which meet the study objectives involving discharge of some small fill into waters of the United States.
- **C.4.37.10.3** At this time, no practicable alternatives exist which have less adverse impact on the aquatic ecosystem without presenting other significant adverse environmental consequences. The alternatives all have overwhelming beneficial impacts.
- **C.4.37.10.4** The discharge of fill materials is not anticipated to cause or contribute to violations of any applicable state water quality standards for Class III waters or Outstanding Florida Waters where applicable. The discharge operation is not anticipated to violate the Toxic Effluent Standards of Section 307 of the Clean Water Act.
- **C.4.37.10.5** The placement of fill materials in the project area is not anticipated to jeopardize the continued existence of any species listed as threatened and endangered or result in the likelihood of destruction or adverse modification of any critical habitat as specified by the Endangered Species Act of 1973, as amended.
- **C.4.37.10.6** The placement of fill material is not anticipated to result in significant adverse effects on human health and welfare, including municipal and private water supplies, recreational and commercial fishing, plankton, fish, shellfish, wildlife and special aquatic sites. The life stages of aquatic species and

other wildlife is not anticipated to be adversely affected. Significant adverse effects on aquatic ecosystem diversity, productivity and stability, and recreational, aesthetic and economic values are not anticipated.

C.4.37.10.7 Based on the guidelines, the proposed discharge site for the discharge of fill and/or dredged material is specified as complying with the requirements of these guidelines.

C.4.38 Coastal Zone Management Act Consistency Statement

FLORIDA COASTAL MANAGEMENT PROGRAM FEDERAL CONSISTENCY EVALUATION PROCEDURES

Central Everglades Planning Project

St. Lucie, Martin, Okeechobee, Glades, Hendry, Palm Beach, Broward, Miami-Dade, Monroe, Collier, Lee and Charlotte Counties

Enforceable Policy. Florida State Statues considered "enforceable policy" under the Coastal Zone Management Act (www.dep.state.fl.us/cmp/federal/24 statutes.htm).

Applicability of the Coastal Zone Management Act.

The following table summarizes the process and procedures under the Coastal Zone Management Act for Federal Actions and for non-Federal Applicants*.

Item	Non-Federal Applicant (15 CFR 930, subpart D)	Federal Action (15 CFR 930, subpart C)
Enforceable Policies	Reviewed and approved by NOAA (in FL www.dep.state.fl.us/cmp/federal/24 statutes.htm)	Same
Effects Test	Direct, Indirect (cumulative, secondary), adverse or beneficial	Same
Review Time	6 months from state receipt of Consistency Certification (30-days for completeness notice) Can be altered by written agreement between State and applicant	60 Days, extendable (or contractible) by mutual agreement
Consistency	Must be Fully Consistent	To Maximum Extent Practicable**
Procedure Initiation	Applicant provides Consistency Certification to State	Federal Agency provides "Consistency Statement" to State
Appealable	Yes, applicant can appeal to Secretary (NOAA)	No (NOAA can "mediate")
Activities	Listed activities with their geographic location (State can request additional listing within 30 days)	Listed or Unlisted Activities in State Program
Activities in Another State	Must have approval for interstate reviews from NOAA	Interstate review approval NOT required
Activities in Federal Waters	Yes, if activity affects state waters	Same

^{*} There are separate requirements for activities on the Outer Continental Shelf (subpart E) and for "assistance to an applicant agency" (subpart F).

^{**} Must be fully consistent except for items prohibited by applicable law (generally does not count lack of funding as prohibited by law, 15 CFR 930.32).

Coastal Zone Consistency Statement by Statute/Enforceable Policy

CHAPTER 161, F.S., BEACH AND SHORE PRESERVATION

Coastal areas are among the state's most valuable natural, aesthetic, and economic resources; and they provide habitat for a variety of plant and animal life. The state is required to protect coastal areas from imprudent activities that could jeopardize the stability of the beach-dune system, accelerate erosion, provide inadequate protection to upland structures, endanger adjacent properties, or interfere with public beach access. Coastal areas used, or likely to be used, by sea turtles are designated for nesting, and the removal of vegetative cover that binds sand is prohibited. This statute provides policy for the regulation of construction, reconstruction, and other physical activities related to the beaches and shores of the state. Additionally, this statute requires the restoration and maintenance of critically eroding beaches.

Response: The proposed plans and information would be submitted to the state in compliance with this chapter. No work is proposed seaward of the mean high water line and would not affect shorelines or shoreline processes.

CHAPTER 163, PART II, F.S., INTERGOVERNMENTAL PROGRAMS: GROWTH POLICY, COUNTY AND MUNICIPAL PLANNING: LAND DEVELOPMENT REGULATION

The purpose of this statute is to provide for the implementation of comprehensive planning programs to guide and control future development in the state. The comprehensive planning process encourages units of local government to preserve, promote, protect, and improve the public health, safety, comfort, good order, appearance, convenience, law enforcement and fire prevention, and general welfare; prevent the overcrowding of land and avoid undue concentration of population; facilitate the adequate and efficient provision of public facilities and services; and conserve, develop, utilize, and protect natural resources within their jurisdictions.

<u>Chapter 163</u>, <u>Part II</u> Intergovernmental Programs: Growth Policy; County and Municipal Planning; Land Development Regulation

Enforceable policy includes only:

Sections 163.3164 Local Government Comprehensive Planning and Land Development Regulation Act; definitions;

.3177(6)(a) requiring a future land use plan element designating proposed future general distribution, location, and extent of the uses of land for residential uses, commercial uses, industry, agriculture, recreation, conservation, education, public buildings and grounds, other public facilities, and other categories of the public and private uses of land.

(10)(h). public facilities and services needed to support development shall be available concurrent with the impacts of such development in accordance with s. <u>163.3180</u>. [see .3180(2)(a-c), (5)(a&c), (6), and (8); below].

(10)(I). consider land use compatibility issues in the vicinity of all airports in coordination with the Department of Transportation and adjacent to or in close proximity to all military installations in coordination with the Department of Defense.

- (11)(a). innovative approaches to development which may better serve to protect environmentally sensitive areas, maintain the economic viability of agricultural and other predominantly rural land uses, and provide for the cost-efficient delivery of public facilities and services.
- (11)(c). maximize the use of existing facilities and services through redevelopment, urban infill development, and other strategies for urban revitalization.
- .3178(1) local government comprehensive plans restrict development activities where such activities would damage or destroy coastal resources, and that such plans protect human life and limit public expenditures in areas that are subject to destruction by natural disaster.
- (2)(d-j); studies, surveys, and data; be consistent with coastal resource plans prepared and adopted pursuant to general or special law; and contain:
- (d) A component which outlines principles for hazard mitigation and protection of human life against the effects of natural disaster, including population evacuation, which take into consideration the capability to safely evacuate the density of coastal population proposed in the future land use plan element in the event of an impending natural disaster. The Division of Emergency Management shall manage the update of the regional hurricane evacuation studies, ensure such studies are done in a consistent manner, and ensure that the methodology used for modeling storm surge is that used by the National Hurricane Center.
- (e) A component which outlines principles for protecting existing beach and dune systems from human-induced erosion and for restoring altered beach and dune systems.
- (f) A redevelopment component which outlines the principles which shall be used to eliminate inappropriate and unsafe development in the coastal areas when opportunities arise.
- (g) A shoreline use component that identifies public access to beach and shoreline areas and addresses the need for water-dependent and water-related facilities, including marinas, along shoreline areas. Such component must include the strategies that will be used to preserve recreational and commercial working waterfronts as defined in s. 342.07.
- (h) Designation of coastal high-hazard areas and the criteria for mitigation for a comprehensive plan amendment in a coastal high-hazard area as defined in subsection (9). The coastal high-hazard area is the area below the elevation of the category 1 storm surge line as established by a Sea, Lake, and Overland Surges from Hurricanes (SLOSH) computerized storm surge model. Application of mitigation and the application of development and redevelopment policies, pursuant to s. 380.27(2), and any rules adopted thereunder, shall be at the discretion of local government.
- (i) A component which outlines principles for providing that financial assurances are made that required public facilities will be in place to meet the demand imposed by the completed development or redevelopment. Such public facilities will be scheduled for phased completion to coincide with demands generated by the development or redevelopment.
- (j) An identification of regulatory and management techniques that the local government plans to adopt or has adopted in order to mitigate the threat to human life and to control proposed development and

redevelopment in order to protect the coastal environment and give consideration to cumulative impacts.

- .3180(2)(a-c), (a) Consistent with public health and safety, sanitary sewer, solid waste, drainage, adequate water supplies, and potable water facilities shall be in place and available to serve new development no later than the issuance by the local government of a certificate of occupancy or its functional equivalent. Prior to approval of a building permit or its functional equivalent, the local government shall consult with the applicable water supplier to determine whether adequate water supplies to serve the new development will be available no later than the anticipated date of issuance by the local government of a certificate of occupancy or its functional equivalent. A local government may meet the concurrency requirement for sanitary sewer through the use of onsite sewage treatment and disposal systems approved by the Department of Health to serve new development.
- (b) Consistent with the public welfare, and except as otherwise provided in this section, parks and recreation facilities to serve new development shall be in place or under actual construction no later than 1 year after issuance by the local government of a certificate of occupancy or its functional equivalent. However, the acreage for such facilities shall be dedicated or be acquired by the local government prior to issuance by the local government of a certificate of occupancy or its functional equivalent, or funds in the amount of the developer's fair share shall be committed no later than the local government's approval to commence construction.
- (c) Consistent with the public welfare, and except as otherwise provided in this section, transportation facilities needed to serve new development shall be in place or under actual construction within 3 years after the local government approves a building permit or its functional equivalent that results in traffic generation.

(5)(a&c),

- (a) ... planning and public policy goals may come into conflict with the requirement that adequate public transportation facilities and services be available concurrent with the impacts of such development. ... in urban centers transportation cannot be effectively managed and mobility cannot be improved solely through the expansion of roadway capacity, that the expansion of roadway capacity is not always physically or financially possible, and that a range of transportation alternatives is essential to satisfy mobility needs, reduce congestion, and achieve healthy, vibrant centers.
- (c) ... developments located within urban infill, urban redevelopment, urban service, or downtown revitalization areas or areas designated as urban infill and redevelopment areas under s. 163.2517, which pose only special part-time demands on the transportation system, are exempt from the concurrency requirement for transportation facilities. A special part-time demand is one that does not have more than 200 scheduled events during any calendar year and does not affect the 100 highest traffic volume hours.
- (6) a de minimis impact [on a transportation facility] is consistent with this part.
- (8) When assessing the transportation impacts of proposed urban redevelopment within an established existing urban service area, 110 percent of the actual transportation impact caused by the previously existing development must be reserved for the redevelopment...

- .3194(1)(a); After a comprehensive plan, or element or portion thereof, has been adopted in conformity with this act, all development undertaken by, and all actions taken in regard to development orders by, governmental agencies in regard to land covered by such plan or element shall be consistent with such plan or element as adopted.
- .3202(2)(a-h); Local land development regulations shall contain specific and detailed provisions necessary or desirable to implement the adopted comprehensive plan and shall as a minimum:
- (a) Regulate the subdivision of land.
- (b) Regulate the use of land and water for those land use categories included in the land use element and ensure the compatibility of adjacent uses and provide for open space.
- (c) Provide for protection of potable water wellfields.
- (d) Regulate areas subject to seasonal and periodic flooding and provide for drainage and stormwater management.
- (e) Ensure the protection of environmentally sensitive lands designated in the comprehensive plan.
- (f) Regulate signage.
- (g) Provide that public facilities and services meet or exceed the standards established in the capital improvements element required by s. $\underline{163.3177}$ and are available when needed for the development, or that development orders and permits are conditioned on the availability of these public facilities and services necessary to serve the proposed development. Not later than 1 year after its due date established by the state land planning agency's rule for submission of local comprehensive plans pursuant to s. $\underline{163.3167}(2)$, a local government shall not issue a development order or permit which results in a reduction in the level of services for the affected public facilities below the level of services provided in the comprehensive plan of the local government.
- (h) Ensure safe and convenient onsite traffic flow, considering needed vehicle parking.
- .3220(2)&(3).
- (2) (a) The lack of certainty in the approval of development can result in a waste of economic and land resources, discourage sound capital improvement planning and financing, escalate the cost of housing and development, and discourage commitment to comprehensive planning.
- (b) Assurance to a developer that upon receipt of his or her development permit or brownfield designation he or she may proceed in accordance with existing laws and policies, subject to the conditions of a development agreement, strengthens the public planning process, encourages sound capital improvement planning and financing, assists in assuring there are adequate capital facilities for the development, encourages private participation in comprehensive planning, and reduces the economic costs of development.
- (3) In conformity with, in furtherance of, and to implement the Local Government Comprehensive Planning and Land Development Regulation Act and the Florida State Comprehensive Planning Act of

1972, it is the intent of the Legislature to encourage a stronger commitment to comprehensive and capital facilities planning, ensure the provision of adequate public facilities for development, encourage the efficient use of resources, and reduce the economic cost of development.

Response: The proposed project has been coordinated with various Federal, state and local agencies during the planning process. The project meets the primary goal of the State Comprehensive Plan through preservation and protection of the environment.

CHAPTER 186, F.S., STATE AND REGIONAL PLANNING

The state comprehensive plan provides basic policy direction to all levels of government regarding the orderly social, economic, and physical growth of the state. The goals, objectives, and policies of the state comprehensive plan are statewide in scope and are consistent and compatible with each other. The statute provides direction for the delivery of governmental services, a means for defining and achieving the specific goals of the state, and a method for evaluating the accomplishment of those goals.

Response: The proposed project has been coordinated with various Federal, state and local agencies during the planning process. The project meets the primary goal of the State Comprehensive Plan through preservation and protectian of the environment.

CHAPTER 252, F.S., EMERGENCY MANAGEMENT

The state of Florida is vulnerable to a wide range of emergencies, including natural, technological, and manmade disasters and this vulnerability is exacerbated by the tremendous growth in the state's population, especially the growth in the number of persons residing in coastal areas, in the elderly population, in the number of seasonal vacationers, and in the number of persons with special needs. This statute directs the state to reduce the vulnerability of its people and property to natural and manmade disasters; prepare for, respond to and reduce the impacts of disasters; and decrease the time and resources needed to recover from disasters. Disaster mitigation is necessary to ensure the common defense of Floridians' lives and to protect the public peace, health, and safety. The policies provide the means to assist in the prevention or mitigation of emergencies that may be caused or aggravated by the inadequate planning or regulation of facilities and land uses. State agencies are directed to keep land uses and facility construction under continuing study and identify areas that are particularly susceptible to natural or manmade catastrophic occurrences.

Response: This project is a restoration project and provides increased ability to store water in the natural system during hurricanes or floods. All structures will be built to Federal and state standards. This project would be consistent with the efforts of the Division of Emergency Management.

CHAPTER 2S3, F.S., STATE LANDS

The Board of Trustees of the Internal Improvement Trust Fund (Trustees) is vested and charged with the acquisition, administration, management, control, supervision, conservation, protection, and disposition of all lands owned by the state. Lands acquired for preservation, conservation and recreation serve the public interest by contributing to the public health, welfare and economy. In carrying out the requirements of this statute, the Trustees are directed to take necessary action to fully: conserve and protect state lands; maintain natural conditions; protect and enhance natural areas and ecosystems; prevent damage and depredation; and preserve archaeological and historical resources. All submerged lands are considered single-use lands to be maintained in natural condition for the

propagation of fish and wildlife and public recreation. Where multiple-uses are permitted, ecosystem integrity, recreational benefits and wildlife values are conserved and protected.

Chapter 253 State Lands

No lease of the type covered by this law shall be granted, sold, or executed south of 26° north latitude off Florida's west coast and south of 27° north latitude off Florida's east coast.... After July 31, 1990, no oil or natural gas lease shall be granted, sold, or executed covering lands located north of 26°00'00" north latitude off Florida's west coast to the western boundary of the state bordering Alabama ... or located north of 27°00'00" north latitude off Florida's east coast to the northern boundary of the state bordering Georgia

Response: The proposed project would conserve, protect, restore and enhance natural conditions within state lands. This project would make a positive contribution to preserving water, fish and wildlife, cultural, and wetland resources within the State of Florida and therefore, complies with the intent of this chapter.

CHAPTER 258, F.S., STATE PARKS AND PRESERVES

The statute addresses the state's administration of state parks, aquatic preserves, and recreation areas, which are acquired to emblemize the state's natural values and to ensure that these values are conserved for all time. Parks and preserves are managed for the non-depleting use, enjoyment, and benefit of Floridians and visitors and to contribute to the state's tourist appeal. Aquatic Preserves are recognized as having exceptional biological, aesthetic, and scientific value and are set aside for the benefit of future generations. Disruptive physical activities and polluting discharges are highly restricted in aquatic preserves. State managed wild and scenic rivers possess exceptionally remarkable and unique ecological, fish and wildlife, and recreational values and are designated for permanent preservation and enhancement for both the present and future.

Response: The proposed project includes constructing a Flow Equalization Basin (FEB) on the stateowned lands in the Everglades Agricultural Area. The FEB would capture approximately 210,000 acrefeet of water that is currently being discharged from Lake Okeechobee to tide in the St. Lucie and Caloosahatchee Estuaries. The water would be stored and treated to improve water quality prior to be discharged south into the Greater Everglades.

The St. Lucie Estuary is a designated Estuary of National Significance and Outstanding Florida Water. The North Fork of the St. Lucie River is a state aquatic preserve and part of Florida's "Save Our Rivers" program. The Indian River Lagoan is part of the National Estuary Pragram and an aquatic preserve. The proposed FEB would improve delivery of water to the St. Lucie Estuary and Indian River Lagoan by reducing the frequency and valume of high level flows from Lake Okeechobee, thus reducing the potential for impacts to estuarine and nearshore biota.

The Caloasahatchee River and Estuary are at the head of a vast estuarine and marine ecosystem that includes aquatic preserves managed by the State of Florida (e.g., Matlacha Pass, Estero Bay, and Pine Island Saund Aquatic Preserves), the Charlotte Harbor National Estuary Program, and the J. N. Ding Darling National Wildlife Refuge (NWR) Complex which includes the Caloosahatchee, Matlacha Pass, Pine Island, and Island Bay NWRs; along with numerous other state and local parks and recreation areas. The aquatic preserves are also outstanding Florida water bodies. The proposed FEB would reduce the frequency and valume of high flows from Lake Okeechabee, thus reducing the impacts of low salinities on the estuarine and nearshore biota.

The proposed project area includes state-owned lands in Water Conservation Areas (WCA) 3. The proposed project features act to rehydrates northern WCA 3A thereby increasing the spatial extent of wetlands. Additional project features will aid to reconnect WCA 3B and Everglades National Park, providing enhancement of sheetflow and restoration of historic ridge and slough landscape features.

Everglades National Park and the Florida Bay National Marine Sanctuary are within the project area and contain productive estuarine and wetland ecosystems that include aquatic preserves along with local parks and recreation areas. The aquatic preserves are also outstanding Florida water bodies. The proposed project would improve freshwater delivery to coastal wetlands and adjacent estuaries and redistribute flow to salt water wetlands and nearshore bay areas and result in favorable changes to salinity levels. The impacts to the aquatic resources are anticipated to be beneficial for key species such as seatrout, pink shrimp, and crocodiles.

Biscayne National Park is at the headwaters of historic creeks and productive estuarine and marine ecosystems, including aquatic preserves, along with local parks and recreation areas. The Biscayne Bay Aquatic Preserves are Outstanding Florida Waters. The proposed project would not affect the delivery of water to Biscayne Bay.

The proposed project would help enhance environmental conditions at state parks or aquatic preserves in the region. The proposed project would comply with the intent of this chapter.

CHAPTERS 259, F.S., LAND ACQUISITION FOR CONSERVATION OR RECREATION

The statute addresses public ownership of natural areas for purposes of maintaining the state's unique natural resources; protecting air, land, and water quality; promoting water resource development to meet the needs of natural systems and citizens of this state; promoting restoration activities on public lands; and providing lands for natural resource based recreation. Lands are managed to protect or restore their natural resource values, and provide the greatest benefit, including public access, to the citizens of this state.

Response: The potentially affected property is currently in public ownership. These chapters do not apply.

CHAPTERS 260, F.S., FLORIDA GREENWAYS AND TRAILS ACT

A statewide system of greenways and trails is established in order to conserve, develop, and use the natural resources of Florida for healthful and recreational purposes. These greenways and trails provide open space benefiting environmentally sensitive lands and wildlife and provide people with access to healthful outdoor activities. The greenways and trails serve to implement the concepts of ecosystem management while providing, where appropriate, recreational opportunities such as horseback riding, hiking, bicycling, canoeing, jogging, and historical and archaeological interpretation.

Response: The potentially affected property is currently in public ownership. This project is in compliance with the intent of this Chapter.

CHAPTER 267, F.S., HISTORICAL RESOURCES

The management and preservation of the state's archaeological and historical resources are addressed by this statute. This statute recognizes the state's rich and unique heritage of historical resources and directs the state to locate, acquire, protect, preserve, operate and interpret historical and

archeological resources for the benefit of current and future generations of Floridians. Objects or artifacts with intrinsic historical or archeological value located on, or abandoned on, state-owned lands or state-owned submerged lands belong to the citizens of the state. The state historic preservation program operates in conjunction with the National Historic Preservation Act of 1966 to require state and federal agencies to consider the effect of their direct or indirect actions on [significant] historical and archeological resources. These resources cannot be destroyed or altered unless no prudent alternative exists. Unavoidable impacts must be mitigated.

Response: The U.S. Army Corps of Engineers has initiated consultation under Section 106 of the National Historic Preservation Act with the State Historic Preservation Officer, the Miccosukee Tribe of Indians of Florida, and the Seminole Tribe of Florida and would meet all responsibilities under Chapter 267.

CHAPTER 288, F.S., COMMERCIAL DEVELOPMENT AND CAPITAL IMPROVEMENTS

The framework to promote and develop general business, trade, and tourism components of the state economy are established in this statute. The statute includes requirements to protect and promote the natural, coastal, historical, and cultural tourism assets of the state; foster the development of nature-based tourism and recreation; and upgrade the image of Florida as a quality destination. Natural resource-based tourism and recreational activities are critical sectors of Florida's economy. The needs of the environment must be balanced with the need for growth and economic development.

Response: The proposed project would be compatible with tourism for this area and therefore, is consistent with the goals of this Chapter.

CHAPTER 334, F.S., TRANSPORTATION ADMINISTRATION

The statute addresses the state's policy concerning transportation administration. It establishes the responsibilities of the state, the counties, and the municipalities in the planning and development of the transportation systems serving the people of the state and to assure the development of an integrated, balanced statewide transportation system. This is necessary for the protection of public safety and general welfare and for the preservation of all transportation facilities in the state.

Response: No public transportation systems would be impacted by this project.

CHAPTER 339, F.S., TRANSPORTATION FINANCE AND PLANNING

The statute addresses the finance and planning needs of the state's transportation system.

Response: No public transportation systems would be impacted by this project.

CHAPTER 370, F.S., SALTWATER LIVING RESOURCES

This chapter directs the state to preserve, manage and protect the marine, crustacean, shell and anadromous fishery resources in state waters; to protect and enhance the marine and estuarine environment; to regulate fishermen and vessels of the state engaged in the taking of such resources within or without state waters; to issue licenses for the taking and processing products of fisheries; to secure and maintain statistical records of the catch of each such species; and to conduct scientific, economic, and other studies and research.

Response: The proposed project would help improve ecological conditions in the estuaries. Implementation of the project would provide direct positive impacts on saltwater resources within the Caloosahatchee Estuary and St. Lucie Estuary by reducing the frequency and volume of high level flows from Lake Okeechobee and improve the salinity balance. This will benefit seagrass, oysters, fish, and wildlife. Implementation of the proposed project would provide direct positive impacts on saltwater resources within Florida Bay and adjacent southwestern coastal estuaries by redistributing freshwater runoff from the watershed to provide a more natural and historic overland flow through transverse glades and existing coastal wetlands that will reduce hyper-saline conditions and improve the overall salinity balance. This course of action would provide benefits for key species such as seatrout, pink shrimp, and crocodiles as well as seagrass, fisheries and wildlife. Based on the overall impacts, the project is consistent with the goals of this chapter.

CHAPTER 372, F.S., LIVING LAND AND FRESHWATER RESOURCES

This chapter establishes the Game and Freshwater Fish Commission (now called the Florida Fish and Wildlife Conservation Commission) and directs it to manage freshwater aquatic life and wild animal life and their habitat to perpetuate a diversity of species with densities and distributions that provide sustained ecological, recreational, scientific, educational, aesthetic, and economic benefits.

Response: The proposed project would have a long-term beneficial effect on freshwater aquatic life and wildlife. The proposed project would increase the foraging opportunities for wading birds and other wildlife within the proposed FEB. The project would have a long-term beneficial effect on freshwater aquatic life and wildlife within the Caloosahatchee River and St. Lucie River through attenuation of peak high flows during the wet season thus improving the salinity envelope for these species. The proposed project would rehydrate WCA 3A, 3B and Everglades National Park, add wetland habitat, and is expected to significantly improve conditions for apple snails, fish, amphibians, alligators, and wading bird species throughout much of the Greater Everglades. The proposed project would also distribute freshwater flows through Taylor Slough to provide a more natural and historic overland flow within the freshwater wetlands adjacent to Florida Bay. Implementation of the proposed project would provide direct positive impacts on saltwater resources within Florida Bay and adjacent southwestern coastal estuaries by redistributing freshwater runoff from the watershed to provide a more natural and historic overland flow through transverse glades and existing coastal wetlands that would reduce hyper-saline conditions and improve the overall salinity balance. The proposed project is consistent with the intent of this chapter.

CHAPTER 373, F.S., WATER RESOURCES

The waters in the state of Florida are managed and protected to conserve and preserve water resources, water quality, and environmental quality. This statute addresses sustainable water management; the conservation of surface and ground waters for full beneficial use; the preservation of natural resources, fish, and wildlife; protecting public land; and promoting the health and general welfare of Floridians. The state manages and conserves water and related natural resources by determining whether activities will unreasonably consume water; degrade water quality; or adversely affect environmental values such as protected species habitat, recreational pursuits, and marine productivity.

Specifically, under Part IV of Chapter 373, the Department of Environmental Protection, water management districts, and delegated local governments review and take agency action on wetland resource, environmental resource, and stormwater permit applications, which address the construction, alteration, operation, maintenance, abandonment, and removal of any stormwater management system, dam, impoundment, reservoir, or appurtenant work or works, including dredging, filling and construction activities in, on, and over wetlands and other surface waters.

Response: The proposed project includes constructing a Flow Equalization Basin (FEB) on the State-owned lands in the Everglades Agricultural Area. The FEB would capture approximately 200,000 ocrefeet of water that is currently being discharged from Lake Okeechobee to tide in the St. Lucie and Caloosahotchee Estuories. The water would be stored and treated to improve water quality prior to being discharged south into the Greater Everglades. The additional 200,000 acre feet of water that was previously lost to the Atlantic Ocean and Gulf of Mexico would flow southward, rehydrating historic marshes, providing enhancement of sheetflow and restoration of historic ridge and slough landscape features, and improving groundwater recharge.

The proposed project incorporates restoration components primarily intended to benefit freshwater wetlands and estuarine resources by distributing freshwater flows through WCA 3A, WCA 3B and Everglades National Park. This includes the installation/construction of a flow equalization basin, pump stations, flow-ways, levees, gated structures and the removal and backfilling of canals. The goals and objectives of this project are to improve habitat conditions for native wildlife species. Impacts of this project have been detailed within an Environmental Impact Statement and in the Section 404(b)(1) Clean Water Act Evaluation (Appendix C.4.3.2). This project is in compliance with the intent of this Chapter.

The non-Federal sponsor for this project is the SFWMD, which is the state agency responsible for implementing this statute. The USACE and the SFWMD have coordinated planning efforts to ensure compatibility with established policies. The project is consistent with the goals of this chapter.

CHAPTER 375, F.S., OUTDOOR RECREATION AND CONSERVATION LANDS

The statute addresses the development of a comprehensive multipurpose outdoor recreation plan. The purpose of the plan is to document recreational supply and demand, describe current recreational opportunities, estimate the need for additional recreational opportunities, and propose the means to meet the identified needs.

Response: The potentially affected property is currently in public ownership. This project is in compliance with the intent of this Chapter.

CHAPTER 376, F.S., POLLUTANT DISCHARGE PREVENTION AND REMOVAL

Regulating the transfer, storage, and transportation of pollutants, and the cleanup of pollutant discharges is essential for maintaining the coastal waters, estuaries, tidal flats, beaches, and public lands adjoining the seacoast in as close to a pristine condition as possible. The preservation of the seacoast as a source of public and private recreation and the preservation of water and certain lands are matters of the highest urgency and priority. This statute provides a framework for the protection of the state's coastline from spills, discharges, and releases of pollutants as a result of the transfer, storage, and transportation of such products. The discharge of pollutants into or upon any coastal waters, estuaries, tidal flats, beaches, and lands adjoining the seacoast of the state is prohibited. The statute provides for hazards and threats of danger and damages resulting from any pollutant discharge to be evaluated; requires the prompt containment and removal of pollution; provides penalties for violations; and ensures the prompt payment of reasonable damages from a discharge. Portions of Chapter 376, F.S., serve as a complement to the national contingency plan portions of the federal Water Pollution Control Act.

Response: The contract specifications would prohibit the contractor from dumping oil, fuel, or hazardous wastes in the work area and would require that the contractor adopt safe and sanitary measures for the disposal of solid wastes. A spill prevention plan would be required.

CHAPTER 377, F.S., ENERGY RESOURCES

The statute addresses the regulation, planning, and development of the energy resources of the state. The statute provides policy to conserve and control the oil and gas resources in the state, including products made therefrom and to safeguard the health, property and welfare of Floridians. The Department of Environmental Protection (DEP) is authorized to regulate all phases of exploration, drilling, and production of oil, gas, and other petroleum products in the state. The statute describes the permitting requirements and criteria necessary to drill and develop for oil and gas. DEP rules ensure that all precautions are taken to prevent the spillage of oil or any other pollutant in all phases of extraction and transportation. The state explicitly prohibits pollution resulting from drilling and production activities. No person drilling for or producing oil, gas, or other petroleum products may pollute land or water; damage aquatic or marine life, wildlife, birds, or public or private property; or allow any extraneous matter to enter or damage any mineral or freshwater-bearing formation. Penalties for violations of any provisions of this chapter are detailed.

Chapter 377 Energy Resources

Not approved as enforceable policy: Sections 377.06, .24(9), and .242(1)(a)5. All deal with regulation of oil and gas resources.

Response: This project does not involve the exploration; drilling or production of gas, oil or petroleum product and therefore, this chapter does not apply.

CHAPTER 379, F.S., FISH AND WILDLIFE CONSERVATION

The framework for the management and protection of the state of Florida's wide diversity of fish and wildlife resources are established in this statute. It is the policy of the state to conserve and wisely manage these resources. Particular attention is given to those species defined as being endangered or threatened. This includes the acquisition or management of lands important to the conservation of fish and wildlife. This statute contains specific provisions for the conservation and management of marine fisheries resources. These conservation and management measures permit reasonable means and quantities of annual harvest, consistent with maximum practicable sustainable stock abundance, as well as ensure the proper quality control of marine resources that enter commerce.

Additionally, this statute supports and promotes hunting, fishing and the taking of game opportunities in the State. Hunting, fishing, and the taking of game are considered an important part in the state's economy and in the conservation, preservation, and management of the state's natural areas and resources.

Chapter 379 Fish and Wildlife Conservation.

Not approved as enforceable policy: Sections 379.2551 and .362.

379.2511? [no 379.2551 shown] Lease of state-owned water bottoms for growing oysters and clams.

379.362 Wholesale and retail saltwater products dealers; regulation.

Response: The goals and objectives of this project are to improve habitat conditions for native wildlife species. This project is in compliance with the intent of this Chapter.

CHAPTER 380, F.S., LAND AND WATER MANAGEMENT

Land and water management policies are established to protect natural resources and the environment; and to guide and coordinate local decisions relating to growth and development. The statute provides that state land and water management policies, to the maximum possible extent, be implemented by local governments through existing processes for the guidance of growth and development and that all the existing rights of private property be preserved in accord with constitutions of this state and of the United States. The chapter establishes the Areas of Critical State Concern designation, the Florida Communities Trust as well as the Florida Coastal Management Act. The Florida Coastal Management Act provides the basis for the Florida Coastal Management Program which seeks to protect the natural, commercial, recreational, ecological, industrial, and aesthetic resources of Florida's coast.

Chapter 380 Land and Water Management

Not approved as enforceable policy: Section 380.23(3)(d). [consistency review of] Federal activities within the territorial limits of neighboring states when the Governor and the department determine that significant individual or cumulative impact to the land or water resources of the state would result from the activities.

Response: The proposed project incorporates restoration components primarily intended to benefit freshwater wetlands and estuarine resources by distributing freshwater flows through WCA 3A, WCA 3B and Everglades National Park. This includes the installation/canstruction af a flow equalization basin, pump stations, flow-ways, levees, gated structures and the removal and backfilling of canals. The goals and objectives of this project are to improve habitat conditions for native wildlife species. Impacts of this project have been detailed within an Environmental Impact Statement. This project is in compliance with the intent of this Chapter.

CHAPTER 381, F.S., PUBLIC HEALTH: GENERAL PROVISIONS

The statute establishes public policy concerning the state's public health system, which is designated to promote, protect, and improve the health of all people in the state.

Chapter 381 Public Health: General Provisions

Enforceable policy includes only Sections 381.001, .0011, .0012, .006, ,0061, .0065, .0066, and .0067.

381.001 Legislative intent; public health system.

381.0011 Duties and powers of the Department of Health.

381.0012 Enforcement authority.

381,006 Environmental health.

381.0061 Administrative fines.

381,0065 Onsite sewage treatment and disposal systems; regulation.

381.0066 Onsite sewage treatment and disposal systems; fees.

<u>381.0067</u> Corrective orders; private and certain public water systems and onsite sewage treatment and disposal systems.

Response: This project would not affect the state's public health system and therefore, this Chapter is not applicable.

CHAPTER 388, F.S., MOSQUITO CONTROL

Mosquito control efforts of the state are to achieve and maintain such levels of arthropod control as will protect human health and safety and foster the quality of life of the people, promote the economic development of the state, and facilitate the enjoyment of its natural attractions by reducing the number of pestiferous and disease-carrying arthropods. It is the policy of the state to conduct arthropod control in a manner consistent with protection of the environmental and ecological integrity of all lands and waters throughout the state.

Response: The proposed project would not further the propagation of mosquitoes or other pest arthropods and with the restoration of sheetflow, standing water would be reduced, thus potentially reducing the propagation of mosquitoes. This project is in compliance with the intent of this Chapter.

CHAPTER 403, F.S., ENVIRONMENTAL CONTROL

Environmental control policies conserve state waters; protect and improve water quality for consumption and for the propagation of fish and wildlife; and maintain air quality to protect human health and plant and animal life. This statute provides wide-ranging authority to address various environmental control concerns, including air and water pollution; electrical power plant and transmission line siting; the Interstate Environmental Control Compact; resource recovery and management; solid and hazardous waste management; drinking water protection; pollution prevention; ecosystem management; and natural gas transmission pipeline siting.

Chapter 403 Environmental Control

Not approved as enforceable policy: Section 403.7125(2) and (3).

- (2) The owner or operator of a landfill ...shall establish a fee, or a surcharge on existing fees or other appropriate revenue-producing mechanism, to ensure the availability of financial resources for the proper closure of the landfill.
- (3) An owner or operator of a landfill ... may provide financial assurance to the department in lieu of the requirements of subsection (2).

Response: A draft Environmental Impact Statement addressing project impacts has been prepared and would be reviewed by the appropriate resource agencies including the Florida Department of Environmental Protection. Environmental protection measures would be implemented to ensure that no lasting adverse effects on water quality, air quality, or other environmental resources would occur. The project complies with the intent of this chapter.

CHAPTER 553, F.S., BUILDING AND CONSTRUCTION STANDARDS

The statute addresses building construction standards and provides for a unified Florida Building Code.

<u>Chapter 553</u> Building and Construction Standards. Enforceable policy includes only Sections 553.73 and .79.

553.73 Florida Building Code.

553.79 Permits; applications; issuance; inspections.

Response: A draft Environmental Impact Statement addressing project impacts has been prepared and would be reviewed by the appropriate resource agencies including the Florida Department of Environmental Protection. Environmental protection measures would be implemented to ensure that no lasting adverse effects on water quality, air quality, or other environmental resources would occur. Water Quality Certification would be sought from the State prior to construction. The project complies with the intent of this chapter.

CHAPTER 582, F.S., SOIL AND WATER CONSERVATION

It is the state's policy to preserve natural resources; control and prevent soil erosion, prevent floodwater and sediment damages and to further the conservation, development and use of soil and water resources, and the disposal of water. Farm, forest, and grazing lands are among the basic assets of the state; and the preservation of these lands is necessary to protect and promote the health, safety, and general welfare of its people. These measures help to preserve state and private lands, control floods, maintain water quality, prevent impairment of dams and reservoirs, assist in maintaining the navigability of rivers and harbors, preserve wildlife and protect wildlife habitat, protect the tax base, protect public lands, and protect and promote the health, safety, and general welfare of the people of this state.

Response: Project construction and implementation would include appropriate erosion control plans and measures to ensure compliance with the intent of the chapter.

CHAPTER 597, F.S., AQUACULTURE

The statute establishes public policy concerning the cultivation of aquatic organisms in the state. The intent is to enhance the growth of aquaculture, while protecting Florida's environment. This includes a requirement for a state aquaculture plan which provides for the coordination and prioritization of state aquaculture efforts, the conservation and enhancement of aquatic resources and which provides mechanisms for increasing aquaculture production for the creation of new industries, job opportunities, income for aquaculturists, and other benefits to the state.

Response: The proposed project does not include aquaculture activities, and therefore, this Chapter does not apply.

APPENDIX C.5

CULTURAL RESOURCES

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C.5.6	Backgound Information and the 2008 Policy Statement and Guidelines Regarding Human Remains and the Comprehensive Everglades Restoration Plan 177
C.5.7	Florida Division of Historical Resources, June 25, 2007 Meeting Minutes – Linear Resources: Canals and Associated Features
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C.5 CULTURAL RESOURCES

This appendix provides details pertaining to consultation concerning cultural resources and other pertinent information. This PIR/EIS meets cultural resources requirements as specified under NEPA. While the Corps is currently in compliance with the procedural requirements of the NHPA, the Corps recognizes that additional consultation and other requirements are not yet complete, but the project will be in full compliance prior to construction.

C.5.1 Abbreviations

AAF - Airboat Association of Florida

ACHP - Advisory Council on Historic Preservation

BIA - Bureau of Indian Affairs

CEPP - Central Everglades Planning Project

CR - Cultural Resources

EAA - Everglades Agricultural Area

ENP - Everglades National Park

ERTP - Everglades Restoration Transition Plan

FBAR - Florida Bureau of Archaeological Research

HR - Human Remains

NEPA - National Environmental Policy Act

MTIF - Miccosukee Tribe of Indians of Florida

SFWMD - South Florida Water Management District

SHPO - State Historic Preservation Office

STOF - Seminole Tribe of Florida (to mean THPO unless otherwise specified)

THPO - Tribal Historic Preservation Office

Corps - U.S. Army Corps of Engineers

WCA - Water Conservation Area

C.5.2 Specific Consultation

Table C.5.2.1 is a representative sample of project consultation efforts that have occurred up to January 2014 and does not present every occurrence. The Corps acted as lead.

Table C.5.2.1. Synopsis of Consultation

Date	Group	Form	Consultation Synopsis
11/23/2011	Ali	Letter	NEPA scoping letter
12/07/2011	MTIF, STOF	Letter	Corps letter inviting tribes to public workshops and regular meetings
12/14/2011	MTIF	Phone	Introductions, Discussed possible date to meet and discuss CEPP
12/27/2011	STOF, MTIF, SHPO, ENP	Letter	Corps letter dated 12-27-2011 asking for bi-weekly Section 106 consultation
12/28/2011	STOF	Email/Letter	Corps emailed electronic version of letter dated 12-27-2011 asking for formal Section 106 consultation regarding CR.
42/20/2044	NATIF	E	Corps faxed letter dated 12-27-2011 asking for bi-weekly
12/28/2011	MTIF	Fax	formal consultation regarding CR
01/6/2012	STOF	Email	Corps asking for face-to-face meeting with THPO.

Date	Group	Form	Consultation Synopsis
			Corps to discuss CEPP Sampling Strategy for WCA3, Predictive
			modeling for EAA A-1, A-2; Phased approach to CR
01/13/2012	MTIF	Meeting	investigations, and consulting every two weeks.
			MTIF response letter to Corps 12/07/2011 NEPA Scoping
01/20/2012	MTIF	Letter	Letter
			Corps spoke with Deputy SHPO regarding necessity for
01/30/2012	SHPO	Phone	programmatic agreement. SHPO declined need at this time.
			Corps emailed ENP Chief of Cultural Resources to set up
02/5/2012	ENP	Email	meeting to discuss project
			Corps contacted each group individually to inquire about the
02/6/2012	STOF, SHPO, MTIF	Phone	need for testing in WCA3.
			Corps, THPO, and SFMWD meeting regarding CEPP Sampling
			Strategy for WCA3, Predictive modeling for EAA A-1, A-2;
			Phased approach to CR investigations, and consulting every
02/8/2012	STOF, SFWMD	Meeting	two weeks.
02/9/2012	STOF	Email	Corps sending requested documentation for EAA
			Corps and THPO discussed best methodology for soil sample
02/10/2012	STOF	Email	collection
			Participants discussed slides for March 21 st meeting,
			discussed need for testing in EAA A-1 and A-2 and need to
02/16/2012	SFWMD	Phone/Web	speak with SHPO, and consultation process between partners.
			Participants discussed CEPP Field Testing Plan for WCA3, EAA
02/21/2012	SFMWD	Phone	A-1 and A-2
			Corps faxed CEPP Field Testing Plan for WCA3, EAA A-1 and A-
02/23/2012	MTIF	Fax	2 to cultural resource rep.
			Corps, SFWMD and THPO conference call - CEPP Field Testing
02/24/2012	STOF, SFWMD	Phone	Plan for WCA3 EAA A-1 and EAA A-2.
			Corps met with THPO at PDT meeting. CR was discussed.
03/1/2012	STOF, SFWMD	Meeting	THPO requested CR to be covered during PDT meetings.
03/5/2012	STOF, SFWMD	Email	Corps emailed 3-1-2012 PDT NEPA Slides
			Corps emailed revised CEPP Field Testing Plan for WCA3 EAA
03/5/2012	STOF, SFWMD	Email	A-1 and EAA A-2
			Corps and THPO discuss changes of CEPP Field Testing Plan for
03/6/2012	STOF, SFWMD	Email	WCA3 EAA A-1 and EAA A-2
	STOF, ENP, SHPO,		Corps letter dated 03-06-2012 asking for concurrence on CEPP
03/6/2012	MTIF	Letter	Field Testing Plan for WCA3 EAA A-1 and A-2
			Letter received from SHPO concurring with CORPS
			recommendations to conduct necessary CR surveys within
03/16/2012	SHPO	Letter	areas of potential effect.
			Corps emailed electronic version of letter dated 03-06-2012
03/19/2012	STOF, SFWMD	Email	discussed above
			Corps, THPO and SFWMD discuss additional changes to CEPP
03/20/2012	STOF, SFWMD	Phone	Field Testing Plan and ERTP vs. CEPP
			Corps presented difference between ERTP and CEPP,
			discussed necessity for testing EAA A-1 and A-2, and
03/21/2012	SFWMD	Meeting	programmatic agreement based on consultation
			Corps provided requested information to THPO in regards to
03/22/2012	STOF, SFWMD	Email	tree islands
03/23/2012	STOF, SFWMD	Email	Corps provided requested information to THPO

		T	Corps emailed revised draft CEPP Field Testing Plan for WCA3,
			EAA A-1 and A-2. CORPS asked specific questions for THPO
02/26/2012	CTOE CENAND	Email	opinions/concerns,
03/26/2012	STOF, SFWMD	EIIIali	Corps to provide basis for CR investigations for CEPP. Where
02/20/2012	CENTIAND	Masting	The state of the s
03/29/2012	SFMWD	Meeting	are they needed and why.
02/20/2012	CTOE CENTAD	F	Corps provided update to participants regarding FBAR
03/30/2012	STOF, SFWMD	Email	discussions concerning curation/collection strategy for CEPP
03/30/2012	MTIF	Phone	Participants discussed collection strategy for CEPP
			Gave CEPP update. Discussed project timeline and that
04/4/0040	CTOE CELUAD	DI 044 I	SFMWD would do EAA A-1 separate from CEPP as part of their
04/4/2012	STOF, SFWMD	Phone/Web	court ordered water quality requirement.
04/15/2012	MTIF	Phone	Update on CEPP
	SHPO, FBAR,		Corps, SFWMD, SHPO, FBAR meeting regarding CEPP,
04/27/2012	SFWMD	Meeting	particularly EAA A-1 required testing
04/29/2012	MTIF	Mail	Sent requested material to cultural resources representative
05/1/2012	FBAR	Phone	Discussed methodology for CEPP WCA3, EAA A-1 and A-2
05/3/2012	MTIF	Phone	Discussed test areas within WCA3 and cultural issues
05/10/2012	STOF, SFWMD	Phone/Web	Provided THPO and SFWMD CEPP update
	STOF, FBAR,		
05/14/2012	SFWMD,	Phone/Web	Discussed EAA A-1 and methodology
05/15/2012	FBAR	Phone	Discussed EAA A-1 and A-2 methodology
05/29/2012	STOF	Phone	Discussed EAA A-1 and A-2 methodology
05/30/2012	SFMWD	Phone	Corps and SFMWD discuss EAA A-1
	STOF, FBAR, SHPO,		THPO, SHPO, FBAR and SFWMD discussed CEPP, SFWMD
05/30/2012	SFWMD,	Phone/Web	water quality remedy and EAA A-1 methodology
			Corps letter dated 7/06/2012 to BIA asking for consultation
06/6/2012	BIA	Letter	(no response)
			Corps letter to ACHP invitation to enter into consultation
06/6/2012	ACHP	Letter	pursuant to Appendix A of CRF 800
06/14/2012	MTIF	Phone	Discussed airboat access for WCA3
06/18/2012	MTIF	Phone	CR Representative discussed EAA A-1
	STOF, FBAR, SHPO,		THPO, FBAR, SFWMD, and SHPO Face to Face meeting
06/20/2012	SFWMD	Meeting	regarding CEPP CR update, EAA A-1 as State project.
06/21/2012	MTIF	Fax	Corps sent requested information
			Discussed potential of there being HR or culturally significant
07/5/2012	MTIF, STOF	Phone	plants on spoil mounds throughout WCA3. None was known.
			Corps letter dated 7/12/2012 asking for concurrence of the
07/12/2012	MTIF	Letter	field testing plan for CEPP Phase I Survey - WCA 3
07/13/2012	MTIF	Signature	Corps received signed concurrence of 7/12/2012 letter
			SHPO email response to Corps' request for documentation of
			consultation regarding the need for a programmatic
07/25/2012	SHPO	Email	agreement. SHPO agreed with Corps – not needed at this time
	***************************************		Letter received from ACHP accepting participation in
			consultation pursuant to the Criteria for Council Involvement
			in Reviewing Individual Section 106 Cases to help ensure that
			historic properties are fully considered in the management
08/17/2012	ACHP	Letter	and control of water resources in the Everglades
			STOF Representatives, SFWMD Face to Face meeting
09/25/2012	STOF, SFWMD	Meeting	regarding CEPP - Biologist and THPO
		,	,

		<u> </u>	Corps letter response to STOF letter dated 9/26/2012
10/15/2012	STOF	Letter	requesting formal consultation in development of a HR policy.
10/13/2012	3101	Lettei	THPO, SFWMD discussed island plantings in WCA3, and CR
10/24/2012	STOF, SFWMD	Phone/Web	investigation update
10/24/2012	STOP, SEVVIVID	Filone, Web	STOF letter to Corps regarding Western Basins and Tribal
11/07/2012	STOF	Letter	Partnership Program
11/07/2012	STOF, FBAR,	Letter	Partiership Program
	' '		STOUTHER SUPPLEMENT ACTION STORY AND AND AND ACTION AND ACTION AND ACTION AND ACTION AND ACTION AND ACTION
11/10/2012	SFMWD, ENP, SHPO, ACHP	Dhana/Mah	STOF THPO, SHPO, FBAR, ENP, ACHP discuss CEPP Alternatives
11/16/2012	SHPO, ACHP	Phone/Web	and CR
			Met with representative to discuss project alternatives,
12/7/2012	NATIF		concerns were noted and relayed to rest of team
12/7/2012	MTIF	Meeting	management
42/20/2042	STOF, FBAR,	DI	Participants discussed draft Alternatives and potential effects
12/20/2012	SFMWD, ENP, SHPO	Phone/Web	to cultural resources and results of WCA3 Phase I Survey.
	STOF, FBAR,		
/ /	SFMWD, ENP,		Participants discussed changes to Alternatives and potential
01/17/2013	SHPO, ACHP	Phone/Web	effects to cultural resources.
			Participants discussed TSP and the potential effects to cultural
	STOF, FBAR,		resources previously not discussed, draft operations manual
4 4	SFMWD, ENP,		for project was introduced, and discussed EAA A-2 collection
02/21/2013	SHPO, ACHP	Phone/Web	strategy.
			Met with STOF THPO to discuss concerns related to CEPP
			project schedule for cultural resources, CEPP vs. ERTP, level of
			effort needed for Section 106 compliance for a feasibility
03/8/2013	STOF, SFWMD	Meeting	study, inundation of HR.
			STOF letter to Corps dated 3/19/2013 response 3/8/2013
03/19/2013	STOF	Letter	meeting with Corps.
			Corps letter dated 4/01/2013 requesting
			consultation/comment on CEPP WCA 3 Phase I Survey Draft
04/1/2013	SHPO, STOF, MTIF	Letter	Report.
			STOF requested meeting to discuss concerns regarding CEPP
05/23/2013	STOF	Phone	Phase I WCA 3 Draft Report.
			STOF Phase I WCA 3 Draft Report comment letter dated
05/23/2013	STOF	Letter	5/23/2013 received by Corps via email.
03/23/2013	3101	Lettel	3/23/2013 received by Corps via email.
			Discussed cultural sensitive sites discovered during the EAA A-
06/10/2013	SFWMD, FBAR	Phone/Web	2 Phase I Survey.
06/16/2012	CTOF	Lattor	CTOE Local Department provided comments to the Jeef DID
06/16/2013	STOF	Letter	STOF Legal Department provided comments to the draft PIR
			SHPO Phase I WCA 3 Draft Report Comment Letter received
06/18/2013	SHPO	Letter	by Corps via email.
· · · · · · · · · · · · · · · · · · ·			Corps letter dated 6/19/2013 response to STOF concerns
			regarding inundation of human resources, CEPP, and adaptive
06/20/2013	STOF	Letter	management.
, , , , , , , , , , , , , , , , , , ,			
			Corps sent via email for review, the EAA A-2 Phase I Survey
06/20/2013	SFWMD	Email	Draft Report.
	STOF, FBAR, ACHP		Discussed changes to alternatives (4R2) and modeling results.
06/20/2013	SFMWD, SHPO	Phone/Web	Updated CEP Project and ongoing surveys.
00/20/2013	STIVIVO, SHPU	i none/web	opuated our reoject and ongoing surveys.

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07/26/2013	SHPO, STOF, MTIF	Letter	Corps letter dated 7/26/2013 requesting comments on CEPP Phase I Survey for EAA A-2 Revised Draft Report.
07/26/2013	SHPO, STOF, MTIF	Letter	Corps letter dated 7/26/2013 requesting comments on CEPP Phase I Survey for the L-67 Ext. Corridor Draft Report.
07/26/2013	SFWMD	Email	Corps sent electronically the CEPP Phase I Survey for the L-67 Ext. Draft Report to SFWMD for review.
08/5/2013	STOF, SFMWD	Meeting	Corps and STOF Representatives for Environmental Compliance and THPO meeting to discuss CEPP Alt. 4R2 - latest model runs.
08/6/2013	STOF	Meeting	STOF requested meeting with Corps Regulatory and Civil Works (CEPP Team Specifically) to discuss the A-1 FEB EIS.
08/13/2013	SHPO, STOF	Letter	WCA 3 Phase II Cultural Resources Assessment draft report sent out for review via FPT site.
08/19/2013	MTIF	Letter	WCA 3 Phase II Cultural Resources Assessment draft report sent out for review via mail.
08/19/2013	SHPO, STOF, ACHP, FBAR, SFWMD	Email	Regularly scheduled monthly meeting was canceled (Jan. 15) per request. Sent participants a brief project update.
08/21/2013	STOF	Letter	Corps sent electronically the CEPP WCA 3 Phase I Survey Final Report via FTP site.
08/21/2013	STOF	Meeting	Meeting in response to STOF 8/06/2013 request, regarding A-1 FEB EIS.
09/11/2013	SHPO	Letter	Transmittal of final cultural resources investigation reports specific to CEPP: EAA A-2, L-67 Extension, WCA 3 Phase I.
09/11/2013	ENP	Letter	Transmitted final CEPP L-67 Extension cultural resources report.
09/19/2013	STOF, ACHP, SHPO, FBAR, SFMWD	Phone/Web	Monthly meeting. Corps updated May 23, 2012 slide show to reflect the status of CEPP concerning Section 106 and NEPA compliance. THPO and SHPO asked for additional time to review Phase II WCA 3 draft report. Agreed to move date to 9/25/2013.
			Fed-ex final reports for EAA A-2, and L-67 Extension Phase I Survey. Resent via fed-ex final report for WCA 3 Phase I
09/20/2013	SHPO, ENP	Letter Letter	Survey. Fed-ex L-67 Extension Phase I Survey Final Report to SHPO. Same report sent electronically to ENP via FTP site.
10/01/2013	SHPO	Letter	Received formal letter from SHPO documenting CEPP draft PIR/EIS comments
10/07/2013	SHPO	Letter	Received second draft report comment letter from SHPO for WCA 3 Phase I Draft Report. This letter was in response to original 4-01-2013 letter sent by the Corps. (First response letter dated June 18, 2013.)

	<u> </u>	T	
10/15/2013	STOF	Letter	Received formal CEPP draft PIR/EIS comments from STOF.
10/13/2013	3101	Letter	Received formal CEFF draft Fity Els comments from 5101.
	SHPO, STOF, ACHP,		
10/17/2013	FBAR, SFWMD	Phone/Web	Monthly meeting canceled due to Federal shutdown.
10/1//1010	TOTAL STATE	1110110,1100	Corps response letter addressed to STOF THPO and Interim
			Director, Environmental Resource Management Department.
			In response to STOF letter dated 10/15/2013 providing
11/20/2013	STOF	Letter	comments for the CEPP draft PIR/EIS.
11/20/2013	3101	Letter	comments for the CEFF dist Fity Lis.
	SHPO, STOF, ACHP,		
11/21/2013	FBAR, SFWMD	Phone/Web	Monthly meeting canceled per request.
, , , , , , , , , , , , , , , , , , , ,			
			Corps met with representatives (NAGPRA and Fish and
12/17/2013	MTIF	Meeting	Wildlife Director) to discuss CEPP.
			Overview of comments received from Federal, state, and
			public on CEPP draft PIR/EIS. Very brief summary of MTIF
			meeting. Discussed work being conducted to correct Mod
	SHPO, STOF, ACHP,		Waters Miami Canal Survey report. Update on schedule slip
12/19/2013	FBAR, SFWMD	Phone/Web	for overall consultation letter for CEPP.
			Transmitted Modified Waters Deliveries WCA 3, L-4, and L-5
01/13/2014	SHPO	Letter	Spreader and Pump Station Final Report corrections
			Discussed routed Mod Waters Report corrections (01-16-
			2014). Corps stated that overall consultation letter might not
			be included in final PIR/EIS due to time constraints. Discussed
	SHPO, STOF, ACHP,		upcoming consultation with Airboat Association of Florida
01/16/2014	FBAR, SFWMD	Phone/Web	scheduled 01/18/2014.
			Corps meets with AAF to provide an overview of CEPP and to
			initiate Section 106 consultation. This information was
			provided during the Mod Waters Real Estate meeting. Follow-
01/18/2014	AAF	Meeting	up letter will be routed soon.
			Per request of STOF, Corps sent Mod-Waters Miami Canal
			Final Report Corrections and updated/new FMSF forms to
01/26/2014	STOF	Letter	THPO.
			F. (L
04 (24 (204 4			Follow-up letter to the AAF regarding face-to-face meeting
01/31/2014	AAF	Letter	held on 01/18/2014.

C.5.3 Written Correspondence: Federal and State Agencies

November 23, 2011 NEPA Scoping Letter

December 27, 2011 USACE to ENP CEPP Invitation Section 106 Consultation Bi-Weekly

December 27, 2011 USACE to SHPO CEPP Invitation Section 106 Consultation Bi-Weekly

March 06, 2012 USACE to ENP CEPP WCA 3 and EAA Field Testing Plan

March 06, 2012 USACE to SHPO CEPP WCA 3 and EAA Field Testing Plan

March 16, 2012 SHPO to USACE Response Letter to USACE CEPP WCA 3 and EAA 03-06-2012 Letter

June 06, 2012 USACE to ACHP CEPP Invitation to Consult Pursuant to Appendix A of 36 CFR 800

June 06, 2012 USACE to BIA CEPP Invitation Section 106 Consultation

July 25, 2012 SHPO to USACE Modified Waters Deliveries WCA3 L4 and L5 Spreader and Pump Station Report Comments

July 25, 2012 USACE to SHPO Email – The Need for CEPP to Enter Into a Programmatic Agreement

August 17, 2012 ACHP to USACE Response Letter to USACE CEPP ACHP Letter Dated 06-06-2012

April 01, 2013 USACE to SHPO CEPP WCA3 Phase I Draft Report Request for Section 106 Review

May 05, 2013 USACE Memorandum for the Record – Requesting CEPP Cultural Resources Specific Agency Technical Review (ATR)

June 18, 2013 SHPO to USACE CEPP WCA 3 Phase I Draft Report Comments –First Response to 04-01-2013 Letter

July 26, 2013 USACE to SHPO CEPP EAA A-2 Phase | Draft Report Request for Section 106 Review

July 26, 2013 USACE to SHPO CEPP L-67 Extension Phase I Draft Report Request for Section 106 Review

August 13, 2013 USACE to SHPO CEPP WCA3 Addendum Phase II Draft Report Request for Section 106 Review

September 11, 2013 USACE to SHPO Transmittal Letter for CEPP EAA A-2 Phase I Final Report

September 11, 2013 USACE to SHPO Transmittal Letter for CEPP L-67 Extension Phase I Final Report

September 11, 2013 USACE to SHPO Transmittal Letter for CEPP WCA 3 Phase I Final Report

September 21, 2013 USACE to ENP Transmittal Letter for CEPP L-67 Extension Phase I Final Report

September 24, 2013 USACE Memorandum for the Record -- CEPP ACHP Consultation

October 01, 2013 SHPO to USACE CEPP Draft PIR/EIS Comments

October 07, 2013 SHPO to USACE CEPP WCA 3 Phase I Draft Report Comments –Second Response Letter to 04-01-2013 Letter

October 15, 2013 SHPO to USACE CEPP L-67 Extension Phase I Report Comments (late receiving)

January 15, 2014 USACE to SHPO Modified Waters Deliveries WCA3 L4 and L5 Spreader and Pump Station Final Report and USACE Corrections



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

Planning and Policy Division Environmental Branch

NOV 2 8 2011

TO WHOM IT MAY CONCERN:

The Jacksonville District, U.S. Army Corps of Engineers (Corps) is beginning preparation of a National Environmental Policy Act assessment for the Central Everglades Planning Project. The goal of the Central Everglades Planning Project is to develop an integrated, comprehensive technical plan, including the first increment of project features to be recommended for authorization, for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem.

The Everglades ecosystem encompasses a system of diverse wetland landscapes that are hydrologically and ecologically connected across more than 200 miles from north to south and across 18,000 square miles of southern Florida. In 2000, the U.S. Congress authorized the Federal government, in partnership with the State of Florida, to embark upon a multi-decade, multi-billion dollar Comprehensive Everglades Restoration Plan (CERP) to further protect and restore the remaining Everglades ecosystem while providing for other water-related needs of the region. CERP involves modification of the existing network of drainage canals and levees that make up the Central and Southern Florida Flood Control Project to restore the south Florida ecosystem.

Construction has begun on the first generation of CERP project modifications already authorized by Congress. These include the Picayune Strand Restoration, the Indian River Lagoon South and Site 1 Impoundment projects. Project Implementation Reports have been completed, or are nearing completion, for the second generation of CERP projects for Congressional authorization, including Biscayne Bay Coastal Wetlands-Phase 1, the Broward County Water Preserve Areas, the Caloosahatchee River (C-43) West Basin Storage Reservoir, and the C-111 Spreader Canal Western Project. All of these CERP projects utilize lands that were acquired by the State and Federal government to meet CERP goals of increasing the extent of wetlands, reducing damaging freshwater discharges to the coastal estuaries, and reducing seepage losses from the natural system. These projects contribute significant ecological benefits to the system and the specific regional habitats in which they are located. These initial CERP projects were intended to provide initial and immediate ecological benefits and set the conditions along the margins of the system that help ensure increased water flows to the interior of the system will not cause adverse effects.

The next step for implementation of CERP is to redirect water that is currently discharged to the east and west coast estuaries from Lake Okeechobee and restore water flow to the south, allowing for restoration of natural habitat conditions and water flow in the central Everglades and re-connecting the ecosystem from Lake Okeechobee to Everglades National Park and Florida Bay. The Central Everglades Planning Project (Figure 1) will develop the initial increment of the project features that provide for storage, treatment and conveyance south of Lake Okeechobee, removal of canals and levees within Water Conservation Area 3 and seepage management features to retain water within the natural system. The CERP Projects identified to accomplish this include the Everglades Agricultural Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park Seepage Management, and Everglades Rain-Driven Operations. These projects make up the heart of CERP aimed at restoring more natural quantity, quality, timing and distribution of water flows to the remaining portions of the river of grass. An integrated study effort on these projects is needed to set the direction for the next decade of CERP implementation.

The Corps will hold a Public Workshop December 14 from 6:30 to 9:00 p.m. at the Sheraton Suites Plantation, Plantation I/II Room, 311 North University Drive, Plantation, Florida and December 15, 2011 from 6:30 to 9:00 p.m. at the John Boy Auditorium, 1200 South W.C. Owen Avenue, Clewiston, Florida. The formal portion of the workshop will begin at 7:30 p.m. The Central Everglades Planning Project team will be available prior to and after the formal presentation to provide information and answer questions about the projects and development of a proposed plan. Interested attendees can call 904-232-1613 for Spanish translation or other special services.

We invite the participation of Federal and State agencies, Native American Tribes, local agencies, interested parties and individuals in providing comments and identifying any issues or concerns. Please share this notice with any interested party. Please send any comments you may have to the attention of Gina Paduano Ralph, Ph.D. (904-232-2336) at the letter head address or email gina.p.ralph@usace.army.mil no later than 30 days from the date of this letter. All individuals providing comments will be included in future mailings. Others may be added to the mailing list by making a written request (postcard) to the same address or by email.

Sincerely,

Stuart J. Appelbaum

Chief, Planning and Policy Division

Enclosure

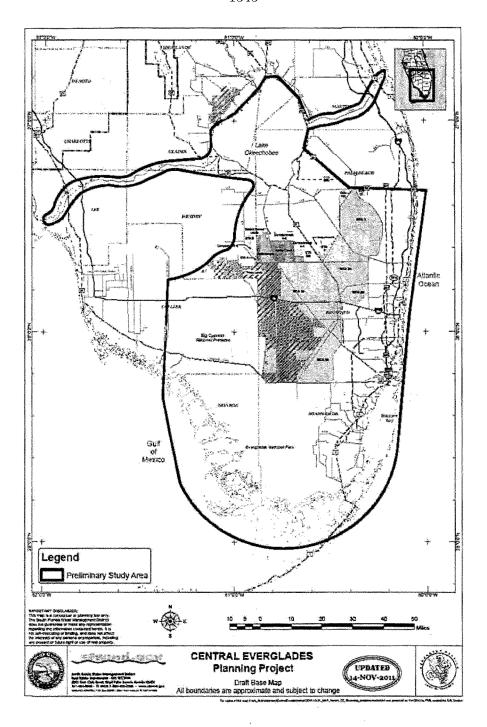


Figure 1. Central Everglades Planning Project Preliminary Study Area.



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

Planning Division Environmental Branch

Ms. Melissa Memory Everglades and Dry Tortugas National Parks Chief of Cultural Resources 40001 State Road 9336 Homestead, Florida 33034

Dear Ms. Memory:

As stated in the National Environmental Policy Act scoping letter dated December 07, 2011, the U.S. Army Corps of Engineers (Corps), Jacksonville District, in partnership with the South Florida Water Management District (SFWMD), have initiated an 18-month expedited pilot project known as the Central Everglades Planning Project (CEPP). The goal of the CEPP is to develop an integrated, comprehensive technical plan for the first increment of project features to be recommended for authorization for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem. The scope of this project includes increments of the following Comprehensive Everglades Restoration Plan (CERP) components: Everglades Agricultural Area Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park Seepage Management, and Everglades Rain-Driven Operations.

Under Section 106 of the National Historic Preservation Act of 1966, as amended and implementing regulations 36 CFR Part 800, as amended, we are assessing our needs for information regarding historic or undocumented traditional cultural properties that might be affected by the undertaking. Although the exact project footprint has yet to be determined, due to the expeditious nature of CEPP, the Corps is currently conducting an extensive review of the Florida Master Site Files (FMSF) to identify previously recorded cultural resource sites and to ascertain the adequacy of past cultural resources surveys conducted within the larger CEPP study area. To insure internal deadlines are met for this project, FMSF review, identification of areas in need of Phase I Survey, and development of a survey methodology are projected to be completed by the end of January 2012. Tentatively, initiation of Phase I Surveys will start mid-March 2012. This will ensure that any necessary cultural resource investigations are completed in a timely manner.

Therefore, we would like to extend an invitation for you or a designated member of your staff to consult with us throughout this process to ensure that all concerns are addressed during these efforts. It is expected that one-on-one discussions regarding the project could take place as monthly or bi-monthly meetings, and either in person or via conference call. Ms. Cindy Thomas has been designated as Corps Staff Archaeologist for CEPP, and will be initiating contact with you (or designee) immediately upon response to this letter. Any questions or concerns that you may have at this time can also be addressed by Ms. Thomas by contacting her at (904) 232-1180 or via email: Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Alfred A. Pantano, Jr. Colonel, V.S. Army District Commander

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Enclosure

Kinard/CESAJ-DD
Applebaum/CESAJ-ED
Taplin/CESAJ-DR-W
Summa/CESAJ-ED-E
Acosta/CESAJ-PD-EP
For Garrett/CESAJ-PM-E
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Gapinski/CESAJ-DX LTC Barker/CESSAJ-DD COL Pantano/CESAJ-DE

Thomas/CESAJ-PD-EP/1180

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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.Ö. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

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REPLY TO-ATTENTION O

Planning Division Environmental Branch

Mr. Robert F. Bendus Division of Historical Resources State Historic Preservation Officer 500 South Bronough Street Tallahassee, Florida 32399-0250

Dear Mr. Bendus:

As stated in the National Environmental Policy Act scoping letter dated December 07, 2011, the U.S. Army Corps of Engineers (Corps), Jacksonville District, in partnership with the South Florida Water Management District (SFWMD), have initiated an 18-month expedited pilot project known as the Central Everglades Planning Project (CEPP). The goal of the CEPP is to develop an integrated, comprehensive technical plan for the first increment of project features to be recommended for authorization for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem. The scope of this project includes increments of the following Comprehensive Everglades Restoration Plan (CERP) components: Everglades Agricultural Area Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park Seepage Management, and Everglades Rain-Driven Operations.

Under Section 106 of the National Historic Preservation Act of 1966, as amended and implementing regulations 36 CFR Part 800, as amended, we are assessing our needs for information regarding historic or undocumented traditional cultural properties that might be affected by the undertaking. Although the exact project footprint has yet to be determined, due to the expeditious nature of CEPP, the Corps is currently conducting an extensive review of the Florida Master Site Files (FMSF) to identify previously recorded cultural resource sites and to ascertain the adequacy of past cultural resources surveys conducted within the larger CEPP study area. To insure internal deadlines are met for this project, FMSF review, identification of areas in need of Phase I Survey, and development of a survey methodology are projected to be completed by the end of January 2012. Tentatively, initiation of Phase I Surveys will start mid-March 2012. This will ensure that any necessary cultural resource investigations are completed in a timely manner.

-2-

Therefore, we would like to extend an invitation for you or a designated member of your staff to consult with us throughout this process to ensure that all concerns are addressed during these efforts. It is expected that one-on-one discussions regarding the project could take place as monthly or bi-monthly meetings, and either in person or via conference call. Ms. Cindy Thomas has been designated as Corps Staff Archaeologist for CEPP, and will be initiating contact with you (or designee) immediately upon response to this letter. Any questions or concerns that you may have at this time can also be addressed by Ms. Thomas by contacting her at (904) 232-1180 or via email: Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Alfred A Pantano, Jr. Colonel, U.S. Army District Commander

Enclosure

Copy Furnished:

Ms. Laura Kammerer, Deputy State Historic Preservation Officer for Review and Compliance, 500 South Bronough Street, Tallahassee, Florida 32399

> Thomas/CESAJ-PD-EP/1180 Kinard/CESAJ-DD Applebaum/CESAJ-ED Tanlin/CESAJ-DR-W

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Vitek/CESAJ-PM

Goral/CESAJ-OC GOO Hobbie/SESAJ-PPMD

Gapinski/CESAJ-DX LTC Barker/CESSAJ-DD

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DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

Planning Division Environmental Branch

MAR 0 6 2012

Mr. Dan B. Kimball Superintendent Everglades National Park 40001 State Road 9336 Homestead, Florida 33034-6733

Dear Mr. Kimball:

The U.S. Army Corps of Engineers (Corps), Jacksonville District, along with the South Florida Water Management District (SFWMD), is studying the environmental effects of the proposed Central Everglades Planning Project (CEPP). The goal of the Central Everglades Planning Project is to deliver within two years a finalized plan, known as a Project Implementation Report (PIR), for a suite of restoration projects in the central Everglades. This PIR is in preparation to seek Congressional authorization for the CEPP as part of the Comprehensive Everglades Restoration Plan (CERP). The project will incorporate updated science and technical information gained over the last decade to identify projects on lands already in public ownership to be selected as the next generation of CERP components.

The CEPP is incorporating some previously defined projects that have already addressed cultural resource concerns. Once the final array of alternatives are identified consultation with your office, site file reviews, cultural resource surveys, and determinations of significance and eligibility for listing of historic properties to the National Register of Historic Places, will continue until the Section 106 process of the NHPA, 36 CFR Part 800, Protection of Historic Properties, and the National Environmental Policy Act of 1969, as amended, are complete.

Based on goals specified by CEPP, the following areas will be consulted on at this time: Water Conservation Areas 3A and 3B, and Everglades Agricultural Area A-1 and A-2 (previously known as Component A).

Water Conservation Areas 3A and 3B – Florida Master Site File research indicates the presence of previously recorded sites, most of which were identified via remote sensing. These sites have not been verified with either surface or subsurface investigations.

-2-

Similarly, the Everglades Agricultural Area A-1 and A-2 – Florida Master Site File research indicates that this area has not undergone systematic cultural resource investigations. Therefore, the Corps proposes to conduct an archaeological survey and assessment of specific areas within both WCA3 and EAA A-1 and A-2 in accordance with the enclosed field testing plan enclosed.

The Corps seeks your comments on this proposed plan of action and looks forward to working with you. Any questions or concerns that you may have at this time can be addressed by Ms. Cindy Thomas by contacting her at (904) 232-1180 or via email: Cynthia.G.Thomas@usace.army.mil.

Eric Summa.

Sincerely,

Chief, Environmental Branch

Enclosure

Copy Furnished:

Ms. Melissa Memory, Everglades and Dry Tortugas National Parks, Chief of Cultural Resources, 40001 State Road 9336, Homestead, Florida 33034

Thomas/CESAJ-PD-EP/1180

Summa/CESAJ-ED-E Acosta/CESAJ-PD-EP Garrett/CESAJ-PM-E

Hughes/CESAJ-PD-EP

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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION O

Planning Division Environmental Branch

MAR 0 6 2012

Mr. Robert F. Bendus Division of Historical Resources State Historic Preservation Officer 500 South Bronough Street Tallahassee, Florida 32399-0250

Dear Mr. Bendus:

The U.S. Army Corps of Engineers (Corps), Jacksonville District, along with the South Florida Water Management District (SFWMD), is studying the environmental effects of the proposed Central Everglades Planning Project (CEPP). The goal of the Central Everglades Planning Project is to deliver within two years a finalized plan, known as a Project Implementation Report (PIR), for a suite of restoration projects in the central Everglades. This PIR is in preparation to seek Congressional authorization for the CEPP as part of the Comprehensive Everglades Restoration Plan (CERP). The project will incorporate updated science and technical information gained over the last decade to identify projects on lands already in public ownership to be selected as the next generation of CERP components.

The CEPP is incorporating some previously defined projects that have already addressed cultural resource-concerns. Once the final array of alternatives are identified consultation with your office, site file reviews, cultural resource surveys, and determinations of significance and eligibility for listing of historic properties to the National Register of Historic Places, will continue until the Section 106 process of the NHPA, 36 CFR Part 800, Protection of Historic Properties, and the National Environmental Policy Act of 1969, as amended, are complete.

Based on goals specified by CEPP, the following areas will be consulted on at this time: Water Conservation Areas 3A and 3B, and Everglades Agricultural Area A-1 and A-2 (previously known as Component A).

Water Conservation Areas 3A and 3B – Florida Master Site File research indicates the presence of previously recorded sites, most of which were identified via remote sensing. These sites have not been verified with either surface or subsurface investigations.

-2-

Similarly, the Everglades Agricultural Area A-1 and A-2 – Florida Master Site File research indicates that this area has not undergone systematic cultural resource investigations. Therefore, the Corps proposes to conduct an archaeological survey and assessment of specific areas within both WCA3 and EAA A-1 and A-2 in accordance with the enclosed field testing plan enclosed.

The Corps seeks your comments on this proposed plan of action and looks forward to working with you. Any questions or concerns that you may have at this time can be addressed by Ms. Cindy Thomas by contacting her at (904) 232-1180 or via email: Cynthia.G.Thomas@usace.army.mil.

Sincerely.

Gric Summa.

Chief Environmental Branch

Enclosure

Copy Furnished:

Ms. Laura Kammerer, Deputy State Historic Preservation Officer for Review and Compliance, 500 South Bronough Street, Tallahassee, Florida 32399

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Garrett/CESAJ-PD-EP
Garrett/CESAJ-PD-EP



FLORIDA DEPARTMENT OF STATE

RICK SCOTT Governor KEN DETZNER Secretary of State

Mr. Eric Summa
Planning Division
Jacksonville USACE
P.O. Box 4970
Jacksonville, Florida 32232-0019

March 16, 2012

Re: DHR Project File No. 2012-01115/ Received by DHR: March 8, 2012

Project: Central Everglades Planning Project

Counties: Broward, Palm Beach

Dear Mr. Summa:

Our office received and reviewed the above referenced project application in accordance with Section 106 of the National Historic Preservation and the National Environmental Policy Acts as amended, to assess possible adverse impacts to cultural resources (any prehistoric or historic district, site, building, structure, or object) listed, or eligible for listing, in the National Register of Historic Places:

Our office concurs with the recommendations of your agency for the necessity for a cultural resource survey of the area of potential effect for the proposed project. We look forward to reviewing the resultant survey report. As you know, the resultant survey report must conform to the specification set forth in Chapter 1A-46, Florida Administrative Code, and be forwarded to this agency in order to complete the review and consultation processes for this undertaking and its impacts to historic properties. The results of the analysis should determine if significant cultural resources would be disturbed by this development. In addition, if significant remains are located, the data described in the report and the consultant's conclusions will assist this office as well in determining measures to be taken to avoid or minimize adverse impacts to any historic properties identified.

If you have any questions concerning our comments, please contact Michael Hart, Historic Sites Specialist, by phone at 850.245.6333, or by electronic mail at Michael Hart@dos.myflorida.com. Your continued interest in protecting Florida's historic properties is appreciated.

Sincerely,

Laura A. Kammerer

Deputy State Historic Preservation Officer

Laura a. Kammerer

For Review and Compliance

DIVISION OF HISTORICAL RESOURCES

R. A. Gray Building + 500 South Bronough Street + Tallahassee, Florida 32399-0250
Telephone: 850,245.6300 • Facsimile: 850,245.6436 • www.fiheritage.com
Commemorating 500 years of Florida history www.fla500.com





DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

JUN 0 6 2017

REPLY TO

Planning Division Environmental Branch

Mr. Reid Nelson Advisory Council on Historic Preservation Old Post Office Building 1100 Pennsylvania Avenue, NW, Suite 803 Washington, DC 20004

Dear Mr. Nelson:

The U.S. Army Corps of Engineers (Corps) and the Assistant Secretary of the Army senior leadership have collaboratively worked to identify and discuss opportunities to modernize the Civil Works Planning Program to better address water resources challenges that face the nation. One priority for addressing these challenges is shortening the time between initiation of a planning study and initiation of construction by incorporating both the current Reconnaissance and Feasibility phases into a single cohesive preauthorization process in a targeted goal of 18 months.

The Central Everglades Planning Project (CEPP) is one of seven projects chosen to be a part of the Corps initiated National Planning Pilot Program. The CEPP is identified as a multiagency study with the Corps as the lead agency in partnership with the South Florida Water Management District (SFWMD). The target of the CEPP is to deliver within two years, a finalized plan known as a Project Implementation Report (PIR) for a suite of restoration projects in the central Everglades. This PIR is in preparation to seek Congressional authorization for the CEPP as part of the Comprehensive Everglades Restoration Plan (CERP) implemented in 1999. Enclosure 1 provides information regarding the approach for the new study plan, Also, visit http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx for further information regarding CEPP including but not limited to public comments, Working Group Meetings and Planning and Development Team Meetings.

Under Section 106 of the National Historic Preservation Act of 1966, as amended and implementing regulations 36CFR 800, as amended, we are assessing our needs for information regarding historic properties that may be affected by the undertaking. Although the exact suite of previously implemented projects have yet to be determined, due to the expeditious nature of CEPP, the Corps has completed an extensive review of LiDar data, historic and modern aerial photographs, and historic land records (e.g. General Land Office, plat maps, surveyors notes, etc.) to ascertain high probability of historic sites location. In addition, USACE has conducted

an extensive search of the Florida Bureau of Archaeological Research, Florida Master Site Files (FMSF) to identify previously recorded cultural resource sites within the study area, and to ascertain the adequacy of past cultural resource surveys conducted within the larger CERP study area (Enclosure 2). Simultaneously, as previously implemented projects are identified to be a part of CEPP we will continue to do consultation, background reviews, cultural resource surveys, and determinations of significance and eligibility for listing of historic properties to the National Register of Historic Places until compliance with the National Historic Preservation Act is complete.

Enclosure 3 provides a summary of previous cultural resources investigations within the CEPP Feasibility Study area of potential effect (APE), in addition to a summary of project specific alternatives for many of the previously implemented projects under consideration for the CEPP. Currently, only two previously implemented projects have been identified as part of the CEPP: Decomp and Component A-1 and A-2. Through consultation with the State Historic Preservation Office (SHPO), the Seminole Tribe of Florida Tribal Historic Preservation Office (STOF-THPO), and the Miccosukee Tribe of Indians of Florida Cultural Resource Representative, it was determined that identification and assessment of historic properties within the areas is warranted, therefore a sampling strategy and field testing plan was developed. Fieldwork for WCA3 will be completed prior to the PIR, however, due to litigation between the SFWMD and the leasee that is currently preventing access to the property, fieldwork for Component A-1 and A-2 may be delayed until after the PIR, but prior to construction. As stated previously, once other previously implemented projects are identified, we will continue with the Section 106 process until complete. Finally, once the final array of alternatives are selected we will then determine effects, if any, and provide documentation in accordance with 36 CFR. 800.11.

In addition to contacting your office, Corps has identified other potential consulting parties, and pursuant to 36 CFR 800.4, is consulting with Florida federally recognized tribal governments (Miccosukee Tribe of Indians of Florida, and Seminole Tribe of Florida) on at least a bi-weekly basis, Florida's SHPO, and Everglades National Park (Enclosure 4).

At this time, the Corps would like to extend an invitation for you or a designated member of your staff to review the information provided to determine whether to enter into consultation pursuant to Appendix A, Criteria for Council Involvement in Reviewing Individual Section 106 Cases, of 36 CFR Part 800. Ms. Cindy Thomas has been designated as Corps Staff Archaeologist for CEPP. Any questions or concerns that you may have can be addressed by Ms. Thomas by contacting her at (904) 232-1180 or via email: Cynthia G.Thomas@usace.army.mil.

Sincerely,

Eric Summa

Chief, Environmental Branch

Kennets & Jugos



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

Planning Division Environmental Branch

Mr. David Saunders Bureau of Indian Affairs Eastern Regional Office 545 Marriott Drive Suite 700 Nashville, Tennessee 37214

Dear Mr. Saunders:

The U.S. Army Corps of Engineers (Corps) and the South Florida Water Management District (District) are conducting an integrated reconnaissance and feasibility study for the Central Everglades Planning Project (CEPP) and are studying associated environmental effects. The CEPP is looking at combining a suite of projects, many of which have been previously implemented throughout south Florida. The target of the CEPP is to deliver within two years, a finalized plan known as a Project Implementation Report (PIR) for restoration projects in the central Everglades. The CEPP PIR will be prepared and ultimately submitted to Congress for authorization for the CEPP as part of the Comprehensive Everglades Restoration Plan (CERP) implemented in 1999, visit http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx for further information.

The CEPP was announced to the public on November 01, 2011. On December 20, 2011, the Corps began consulting on a bi-weekly basis (at least) with the Miccosukee Tribe of Indians of Florida's NAGPRA Representative and the Seminole Tribe of Florida's, Tribal Historic Preservation Office concerning cultural resources. It is the intention of the Corps to continue this level of consultation with all parties until such time that Section 106 of the National Historic Preservation Act, as amended is complete.

Ms. Cynthia Thomas has been designated as Corps staff Archaeologist for the CEPP. If you would like to provide comments on historic properties located on lands within Bureau of Indian Affairs jurisdiction, please submit comments in writing to Cynthia Thomas. Also, any questions

-2-

or concerns regarding the project may also be addressed to Ms. Thomas by contacting her at $(904)\ 232-1180$ or via email: Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Eric L. Bush Chief, Planning and Policy Division

Copies Furnished:

Dr. Christina Stringer, Bureau of Indian Affairs, Natural Resources Officer, 545 Marriott Drive, Suite 700, Nashville, Tennessee 37214

Thomas/CESAJ-PD-EP/1180

Summa/CESAJ-ED-E Aeosta/CESAJ-PD-EP

Vitek/CESAJ-PM



FLORIDA DEPARTMENT OF STATE

RICK SCOTT Governor KEN DETZNER Secretary of State

Mr. Eric P. Summa
Department of the Army
Jacksonville District Corps of Engineers
P.O. Box 4970
Jacksonville, Florida 32232-0019

July 25, 2012

Re: DHR Project File No.: 2012-2895 / 1A-32 Permit No.: 1112.001

Received by DHR: June 25, 2012

Phase I Historical and Archaeological Survey of the Miami Canal within WCA-3A, Levee 4-5 Spreader Channel, and Levee 5 Spreader Channel Pump Station, Broward and Dade Counties

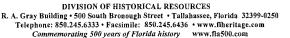
Dear Mr. Summa:

Our office received and reviewed the above referenced survey report in accordance with Section 106 of the National Historic Preservation Act of 1966 (Public Law 89-665), as amended in 1992, and 36 C.F.R., Part 800: Protection of Historic Properties, and Chapter 267, Florida Statutes, for assessment of possible adverse impact to cultural resources (any prehistoric or historic district, site, building, structure, or object) listed, or eligible for listing, in the National Register of Historic Places (NRHP).

Between July and August 2011, Panamerican Consultants, Inc. (PCI) conducted an archaeological and historical Phase I survey of the Miami Canal within WCA-3A to determine the potential effects of closing and backfilling a 27 mile long portion of the Miami Canal and constructing a water flow "spreader channel" and pump station within the northern boundary of WCA-3A. The survey was completed on behalf of the US Army Corps of Engineers, Jacksonville District.

PCI identified six previously unrecorded sites. Three are prehistoric black earth middens (8BD4836, 8BD4837, and 8BD4838), one is a historical barge used as a decking support at Jesse Howard's Fish Camp/Crossroads (8BD4839), another is a ruinous water control structure (8BD4841) on the National Register eligible Miami Canal, and the last is the National Register eligible Miami Canal (8BD4840). In addition, four archaeological occurrences likely associated with early canal construction and use, and 51 buildings and structures were recorded, 11 of which were determined by PCI to be integral to the canal and National Register eligible as part of the already existing fabric of the Miami Canal.







Mr. Summa July 25, 2012 Page 2

PCI suggested Phase II testing for sites 8BD4836 and 8BD4837 due to insufficient information to determine National Register eligibility, and for 8BD4838 due to the presence of faunal and ceramic artifacts. In addition, PCI recommended that more research be conducted on the Jesse Howard Fish Camp/Crossroads, the Al Bryant Fish Camp, and Picnic Island to determine if these are historic sites associated with the Gladesmen culture, and to determine if any of these sites meet the criteria for National Register eligibility.

It is the opinion of PCI that no further investigation of 8BD4839, 8BD4841, or AO 2, 3, and 4 is needed. AO 1 was not evaluated since it was outside of the APE, but PCI did propose a magnetometer and side-scan sonar survey of this location.

Based on the information provided, our office concurs with these determinations and finds the submitted report complete and sufficient in accordance with Chapter 1A-46, *Florida Administrative Code*.

However, the following inclusions and corrections should be made when submitting the final report:

Pg iii, 3rd paragraph – 8BD3838 should be 8BD4838.

Pg 6-7, Figure 6.5 – "Picnic Island" is misspelled on figure.

Pg 9-11, Saunders and Russo (2011) - has been published and is no longer "in press."

Appendices B and C – should also be submitted on loose-leaf paper and in electronic form (with digital copies of associated photographs) on a CD.

For any questions concerning our comments, please contact Deena Woodward, Historic Sites Specialist at 850.245.6333, or by electronic mail at deena.woodward@dos.myflorida.com. We appreciate your continued interest in protecting Florida's historic properties.

Sincerely,

Laura A. Kammerer

Deputy State Historic Preservation Officer

Lama le. Kammerer

For Review and Compliance

From: To: Thomas, Cynthia SAJ Thomas, Cynthia SAJ

Subject: Date: FW: CEPP - Question Regarding PA Monday, December 02, 2013 2:24:15 PM

----Original Message----

From: Kammerer, Laura [mailto:Laura.Kammerer@DOS.MyFlorida.com]

Sent: Monday, June 25, 2012 4:17 PM

To: Thomas, Cynthia SAJ

Subject: RE: CEPP - Question Regarding PA

Cynthia,

I am very sorry for taking so long to respond to your emails! I do not think a Programmatic Agreement is necessary at this point in the CEPP project. Perhaps later down the road when resources are identified and evaluated; and there is documentable reason to suspect there will or may be adverse impacts to historic properties. Any Human Remains (HR) issues should be handled separately at that point, not in the PA; in a HR Policy for CEPP perhaps.

Laura

Laura A. Kammerer

Deputy State Historic Preservation Officer for Review and Compliance | Bureau of Historic Preservation | Division of Historical Resources | Florida Department of State | 500 South Bronough Street | Tallahassee, Florida 32399 | 850.245.6333 | 1.800.847.7278 | Fax: 850.245.6437 | Laura.Kammerer@DOS.MyFlorida.Com | www.flheritage.com

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The Department of State is committed to excellence. Please take our Customer Satisfaction Survey: http://survey.dos.state.fl.us/index.aspx?email=Laura.Kammerer@DOS.MvFlorida.com

----Original Message----

From: Thomas, Cynthia SAJ [mailto:Cynthia.G.Thomas@usace.armv.mil]

Sent: Tuesday, June 05, 2012 11:37 AM

To: Kammerer, Laura

Cc: Vitek, Kimberly A SAJ

Subject: CEPP - Question Regarding PA

Hello Laura,

I have been requested by my boss (Kim Taplin), in response to a request by our headquarters, to obtain written documentation from your office concerning our discussion on 1/30/2012 - if you felt that a PA was necessary for this project. Based on my notes, I show that you "see no reason for it at this time".

Do I need to send a formal letter to you summarizing this discussion and asking your concurrence, or can your office send me a letter?

Just to give you a little background, USACE had an In Progress Review (IPR) on cultural resources for CEPP with headquarters April 23, 2012. Discussions at this meeting involved: ERTP's PA, the relationship between ERTP and CEPP, cultural resource needs for CEPP, and the field testing plan for WCA3 and Component A. Headquarters also asked why CEPP did not require a PA when ERTP did... which was discussed at length. Today we received the memorandum for the record (MFR) comments from the IPR,

and the lawyers have asked that I get something in writing reflecting your opinion concerning a PA for this project.

Please Advise.

Respectfully, Cindy

Cynthia Thomas PD-C Archaeologist

U.S. Army Corps of Engineers Jacksonville District 701 San Marco Blvd. Jacksonville, Florida 32207

Office: (904) 232-1180 Fax: (904) 232-3442 Milford Wayne Donaldson, FAIA Chairman

Clement A, Price Ph.D. Vice Chairman

John M. Fowler
Executive Director



Preserving America's Heritage

August 17, 2012

Lieutenant General Thomas P. Bostick Commanding General U.S. Army Corps of Engineers 441 G. Street, NW Washington, DC 20314-1000

REF: Project Implementation Report for the Central Everglades Planning Project

Dear Lieutenant General Bostick:

The Advisory Council on Historic Preservation (ACHP) has been invited to participate in the referenced undertaking by the Jacksonville District of the Corps of Engineers to help ensure that historic properties are fully considered in the management and control of water resources in the Everglades. Pursuant to the Criteria for Council Involvement in Reviewing Individual Section 106 Cases (Appendix A to our regulations, 36 CFR Part 800) we believe the criteria are met for our participation in this undertaking. Development and implementation of plans to better manage water resources will involve important questions of policy and interpretation and could have substantial impacts to important historic properties. Accordingly, the Advisory Council on Historic Preservation will participate in consultation with the Jacksonville District on this undertaking.

By copy of this letter we are also notifying Mr. Eric Summa, Chief of the Jacksonville District's Environmental Branch, of our decision to participate in consultation.

Our participation will be handled by Dr. Tom McCulloch, who can be reached at 202-606-8554 or at <u>unccullochid achy 202</u>. We look forward to working with the Corps on this important project.

Sincerely.

John M. Fowler
Executive Director



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

Planning Division Environmental Branch APR 0 1 2013

Mr. Robert F. Bendus Division of Historical Resources State Historic Preservation Officer 500 South Bronough Street Tallahassee, Florida 32399-0250

Dear Mr. Bendus:

The U.S. Army Corps of Engineers (Corps), Jacksonville District in partnership with the South Florida Water Management District is conducting a feasibility study for the Central Everglades Planning Project (DHR Project File No. 2012-01115). As part of that study, a cultural resource survey was conducted within Water Conservation Area 3 resulting in the draft report titled, Central Everglades Planning Project Cultural Resources Survey of Water Conservation Areas 3A and 3B, Broward and Miami-Dade Counties, Florida. The draft report contains recommendations on determinations of effects, however the Corps has yet to make a final determination and reserves the right to do so upon submission of the final report. As per request of the Compliance Review Supervisor, Dr. Timothy Parsons, the draft report has been provided electronically for review.

Please provide your comments within 30 calendar days of receipt of this letter. If there are any questions, contact Ms. Cynthia Thomas at 904-232-1180 or e-mail Cynthia.G.Thomas@usace.army.mil. An electronic copy of this letter has been provided to Dr. Timothy Parsons, Compliance Review Supervisor.

Sincerely,

Eric P. Summa

Chief, Environmental Branch

Herney & Onyon



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

0 5 MAY 2000

REPLY TO ATTEMPTOM OF

CESAJ-PD

MEMORANDUM FOR: CEMVP-PD-F (Michelle Kniep)

SUBJECT: ATR Review of Cultural Resources Analyses for Central Everglades Planning Project

- 1. The Central Everglades Planning Project (CEPP) is an increment of the larger Comprehensive Everglades Restoration Plan. Jacksonville District has been developing an integrated Project Implementation Report (PIR) and Environmental Impact Statement (EIS) for CEPP. The Review Plan for CEPP describes a set of five intermediate Agency Technical Reviews. ATR-1 (objectives, management measures, screening methods), ATR-2 (formulation and screening alternatives), and ATR-3 (evaluation of final alternatives to identify TSP) are complete. Unfortunately, neither the Review Plan nor the ATR team included a specialist in cultural resources analysis. The Jacksonville District would like to have this review completed now rather than wait for ATR-4. Therefore, we request the following reviews be completed.
- 2. Please provide a review of the draft cost estimate for cultural resources to verify that the costs are valid, reasonable and comprehensive. These costs are for the life of the project (estimated 40 years). The cost estimate is enclosed and can be furnished electronically if requested.
- 3. Please provide a review of the PIR main document Sections 2, 4, and 5 for both cultural resources compliance under Section 106 of the National Historic Preservation Act and Native Americans sections that address consultation in fulfillment of our Trust responsibilities pursuant to Executive Orders 13007- Indian Sacred Sites, Executive Order 13175- Consultation and Coordination with Indian Tribal Governments, and Executive Order 12898- Executive Order on Environmental Justice. The reviewer can access the PIR and provide comment in Dr. Checks.
- 4. Please provide a review the PIR Appendices C.1, C.2.1, and C.2.2 for both cultural resources compliance and Native American consultation.

5. If you have questions or require additional information, please contact Cindy Thomas at Cynthia.G.Thomas@usace.army.mil or by phone at 904-232-1180.

Encl

ERIC L. BUSH

Chief, Planning and Policy Division

CF: CESAD-PD (w/encl) (D. Bauman)

CESAJ-PPD MEMORANDUM FOR RECORD

SUBJECT: Pilot Program, Central Everglades Planning Project (CEPP), Florida, Advisory Council on Historic Preservation (ACHP) Conversation Regarding Cultural Resources and Section 106 Compliance on 20 September 2013.

- 1. Background: During the CEPP IPR 3.1, the USACE HQ advised the SAJ to consult with the ACHP under 36 CFR 800 Appendix A to ask for participation in consultation for the CEPP (Enclosure 1). On 2012 June 06 the SAJ invited ACHP to participate (Enclosure 2) they accepted on 2012 August 17 (Enclosure 3). Since then, the ACHP has participated in bimonthly and monthly cultural resource consultation meetings lead by the SAJ since that time.
- 2. Purpose: The purpose of this memorandum is to document discussions between staff Archeologist and staff with the Advisory Council on Historic Preservation, and to summarize suggested actions necessary to end Section 106 consultation for the feasibility phase of the CEPP with the understanding that consultation will continue once the project is authorized. The meeting was conducted via teleconference with the Tom McCullouch of the ACHP office and the SAJ CEPP staff Archeologist Cynthia G. Thomas.
- 3. Overview: This meeting focused on discussions on the CEPP Section 106 compliance efforts.
- 4. Questions and Recommendations: The following questions were directed to the ACHP and responses were documented.
 - a. How does the ACHP feel about the expedited process used for the CEPP with regards to Section 106 and 36CFR 800?
 - 1. The ACHP identified the project as being very complex with different consulting parties, conflicting interests of those consulting parties, and different land management practices. The study area's area of potential effect covers state owned lands, Tribal lands, and National Park Service lands, different levels of complexity than most projects. The ACHP referred to CEPP as appearing like the perfect storm.
 - 2. The ACHP stated that currently all parties are cooperating and consultation has been very successful.
 - 3. The ACHP asked if consulting parties understood the Federal process. The SAJ explained that multiple attempts had been made to educate the group being that many of the key consultation representatives are new to the process due to recent turnovers (State Historic Preservation Officer, Deputy State Archaeologist, Seminole Tribe of Florida Tribal Historic Preservation Office staff). The SAJ discussed the PCC1 and PCC2 class recently attended by staff from both the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida. Tuition was funded by the SAJ to assist these key partners in understanding our Federal planning process. Also discussed multiple efforts made by the CEPP Archeologist to further educate those involved.
 - b. Will ACHP formalize their observations of the project process in a letter?
 - 1. The ACHP stated that there would be no need for a letter, however the suggested that a memo be written by SAJ providing an overview of the effort as of 19 Dec 2013. The ACHP also suggested that SAJ send a letter to all participants summarizing what had taken place during the CEPP study with regards to cultural resources, specifying decisions made and actions taken. The ACHP offered assistance in reviewing the letter for required language prior to mailing. The SAJ concurred with all suggestions and established a December deadline for completion of formal consultation for the feasibility phase of the CEPP with the understanding

that consultation will continue once the project is authorized and the CEPP enters into the Preconstruction, Engineering and Design phase.

- c. Does the ACHP have any suggestions for how the process could have potentially worked better.
 - 1. The ACHP had no suggestions.
- 5. Actions/Conclusion: The draft consultation summary letter will be sent to Tom McCullouch with the ACHP for review NLT 15 November 2013 and will include Section 106 consultation required attachments for the CEPP in its entirety.

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Cynthia G. Thomas Archeologist, Central Everglades Branch Chief, Central Everglades Branch



RICK SCOTT

KEN DETZNER Secretary of State

June 18, 2013

Ms. Cynthia Thomas Jacksonville District Corps of Engineers 701 San Marco Blvd. PD-C Floor 4W Jacksonville, FL 32207

Re: DHR Project File No.: 2013-2375

Corps of Engineers Performance Work Statement No.: W912EP-10-D-0018
Revised Draft Report: Cultural Resource Investigations of Water Conservation Areas 3A
and 3B, Everglades, Broward and Miami-Dade Counties, Florida

Dear Ms. Thomas:

Our office received and reviewed the above referenced survey report in accordance with Section 106 of the National Historic Preservation Act of 1966 (Public Law 89-665), as amended in 1992, and 36 C.F.R., Part 800: Protection of Historic Properties, and Chapter 267 of the Florida Statutes, for possible adverse impact to cultural resources (any prehistoric or historic district, site, building, structure, or object) listed, or eligible for listing, in the National Register of Historic Places (NRHP).

The revised draft report submitted for SHPO review details fieldwork conducted by New South Associates as part of the Central Everglades Planning Project (CEPP). The report includes the results of archaeological survey of 30 tree islands, and survey and recording of 10 historic canal segments. We note that a forthcoming report from New South will document an assessment of Al Bryan's Camp and Phase II testing of three prehistoric sites.

Archaeological Survey

Fifteen archaeological sites were investigated as the result of the tree island survey. These included five previously known sites and ten newly identified sites. The historic structures survey documented six historic canals in ten segments, and 20 associated structures including levees, pump stations, etc.

The five previously recorded sites (8DA2144, 8BD2145, 8DA2207, and 8DA2212) were not ground-truthed following their initial identification through remote sensing. None of these sites were identified during subsurface testing efforts. New South noted that despite these results,



DIVISION OF HISTORICAL RESOURCES

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Ms. Thomas June 18, 2013 Page 2

cultural material may be present within other portions of these five islands that went untested. Although no NRHP eligibility or management recommendations were provided by New South for the sites that went unidentified, this office recommends avoidance of the sites. If avoidance is not feasible, we recommend more testing to definitely determine the presence or absence of subsurface archaeological resources.

Of the ten sites newly identified by New South during the course of this project, four (8BD4975, 8BD4978, 8BD4979, and 8BD4980) were recommended as eligible for the NRHP, four (8BD4974, 8BD4976, 8BD4799, and 8BD4982) were recommended as potentially eligible for the NRHP, one (8BD4981) was recommended as not eligible for the NRHP, and one (8DA12830) remains unevaluated. New South recommended that these sites be avoided during any project activities. If avoidance is not feasible, New South recommended mitigation.

The four sites recommended as potentially eligible (8BD4974, 8BD4976, 8BD4977, and 8BD4982) are associated with human remains. This office recommends no further testing and avoidance of the sites during project activities. If avoidance is not feasible, further consultation and mitigation may be necessary.

Due to lack of integrity, 8BD4981 was recommended as not eligible for listing in the NRHP. No further work is recommended for this site.

Historic Canals and Structure Survey

The Miami Canal (8BD4840/8DA6525) and South New River Canal (8BD4153) were determined eligible for the NRHP prior to this survey project. New South recommended that sections of the canal evaluated specifically as part of this survey be listed as eligible, as well. The other historic canals and levees (8BD4987/8DA12829, 8BD4988, and 8DA12826) lack integrity and are recommended not eligible.

Two structures associated with the canals (8BD4984 and 8BD4985) are recommended as eligible for the NRHP. Two historic bridges identified during survey (8BD4986 and 8DA12828) are recommended not eligible by New South.

Based on the information provided, upon receiving the final report the SHPO plans to concur with New South's determinations of eligibility. We note, however, that the sites recommended as "potentially eligible" require more investigation prior to a SHPO eligibility determination.

Ms. Thomas June 18, 2013 Page 3

As part of the final report, please submit the following documents:

- Florida Master Site File Archaeological Site Forms for newly recorded and updated archaeological sites.
- Historic Structure Forms for 8BD4984 and 8BD4985.
- Historical Bridge Forms for 8BD4986 and 8DA12828.

For any questions concerning these comments, please contact me by electronic mail at Timothy.Parsons@DOS.MyFlorida.com, or by phone at 850.245.6333. We appreciate your continued interest in protecting Florida's historic properties.

Sincerely,

Timothy A. Parsons, Ph.D., RPA Compliance Review Supervisor

and Deputy State Historic Preservation Officer



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

2 6 JUL 2013

Planning and Policy Division Environmental Branch

Mr. Robert F. Bendus Division of Historical Resources State Historic Preservation Officer 500 South Bronough Street Tallahassee, Florida 32399-0250

Dear Mr. Bendus:

The U.S. Army Corps of Engineers (Corps) in partnership with the South Florida Water Management District (District) are conducting a feasibility study for the Central Everglades Planning (CEP) Project (DHR Project File No. 2012-01115). A component of the feasibility study will be the construction and operation of a 14,000 acre Flow Equalization Basin (FEB) within the Everglades Agricultural Area Cell A-2 (EAA A-2). For your records, in 2002 this parcel was consulted under the description Everglades Agricultural Area Storage Reservoirs Project Component A (DHR Project File No. 2002-09656).

Following consultation with your office on 2012 April 27 and subsequent review of previous research conducted in the area (Survey # 5610 and 4869), the Corps concluded that additional investigations would be required for the EAA A-2 FEB footprint. With the use of historic and modern aerials, the Corps identified vegetation anomalies within the project area, and contracted Southeastern Archaeological Research Inc. to conduct field investigations of those specific areas. As a result, three prehistoric midden sites (8PB16037, 8PB16039, and 8PB16040) and one historic agricultural work camp (8PB16038) were identified The Corps has determined that only prehistoric site 8PB16039 meets the criteria for eligibility for listing on the National Register of Historic Places.

For the CEPP feasibility study, only preliminary FEB design plans have been developed, which makes it impracticable for the Corps to make a final determination of effect on significant cultural resources at this time. Once Congress has authorized the CEP Project and the FEB enters into the detailed design phase, the Corps will make a final determination of effect for site 8PB16039. In addition, consultation will be needed to identify methods to address potential impacts to site 8PB106040, which contains human remains. Currently the EAA A-2 property is under lease to Florida Crystals by the District and actively cultivated with sugar cane.

-2-

As per request of the Deputy Historic Preservation Officer, Dr. Timothy Parsons, the draft report titled, Central Everglades planning Project, Cultural Resources Investigation of the Everglades Agricultural Area Cell A-2, Palm Beach County, Florida has been provided electronically for review.

In accordance with Section 106 of the *National Historic Preservation Act of 1966*, as amended, we ask for your comments on the above referenced draft report and concurrence on the Corps eligibility determinations within 30 calendar days of receipt of this letter. If you have any questions, please contact Ms. Cindy Thomas at (904) 232-1180 or via email Cynthia.G.Thomas@usace.army.mil.

Sincerely.

Eric Summb Chief, Environmental Branch

Copy Furnished:

Dr. Timothy Parsons, Compliance Review Supervisor, Deputy State Historic Preservation Officer.

Thomas/CESAJ-PD-C/1180 McCullough/CESAJ-PD-EP Taplin/CESAJ-PD-C Summa/CESAJ-ED-E Acosta/CESAJ-PD-EP



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS

P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

Planning and Policy Division Environmental Branch

2 6 JUL 2013

Mr. Robert F. Bendus Division of Historical Resources State Historic Preservation Officer 500 South Bronough Street Tallahassee, Florida 32399-0250

Dear Mr. Bendus:

The U.S. Army Corps of Engineers (Corps) and Everglades National Park (ENP) conducted a Phase I Survey of a 5.38-mile corridor along the L-67 Extension (L-67 Ext.) as part of the Central Everglades Planning Project (CEPP) feasibility study from January 16 through January 18, 2013. The CEPP proposes to use material from the L-67 Ext. levee to backfill the associated borrow canal. The area of potential effect (APE) for this proposed feature of CEPP consists of a 46-meter wide corridor starting at Tamiami Tail (U.S. 41) running south 5.38-miles along the L-67 Ext.

With the use of historic and modern aerial photographs, and in consultation with ENP, the Corps concluded that areas with high probability for site locations did not exist within the APE. To verify these findings, the project archaeologist along with ENP staff visited specific locations and conducted surface inspections and subsurface testing. No cultural material over 50 years of age was observed. As a result, the Corps has determined that there will be no effect to historic properties within the APE of the proposed backfilling and levee degrading of the L-67 Ext.

As per request of the Deputy Historic Preservation Officer, Dr. Timothy Parsons, the draft report titled, Phase I Archeological Survey of a 5.38-Mile Corridor Along the L-67 Extension has been provided electronically for review.

In accordance with Section 106 of the National Historic Preservation Act of 1966, as amended, we ask for your comments on the above referenced draft report and concurrence on the Corps determination of no effect within 30 calendar days of receipt of this letter. If you have any questions, please contact Ms. Cindy Thomas at (904) 232-1180 or via email Cynthia.G. Thomas@usace.army.mil.

Chief, Exvironmental Branch

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Copy Furnished: Dr. Timothy Parsons, Compliance Review Supervisor, Deputy State Historic Preservation Officer.



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Package Contents

File(s)	Privacy Act Data
L-67 Ext. Report Final Draft.pdf (18 MB)	No
(2013-7-26)USACE to SHPO CEPP L-67 Ext. Report Transmitter Lin,pdf (120 KB)	No

Recipients List

Recipients	Downloaded
Robert Sendus@DOS MyFlorida.com	False
Timothy Parsons@DOS.MyFlorida.com	False



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS

P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

ATTENTION O

1 3 AUG 2013

Planning and Policy Division Environmental Branch

Mr. Robert F. Bendus Division of Historical Resources State Historic Preservation Officer 500 South Bronough Street Tallahassee, Florida 32399-0250

Dear Mr. Bendus:

The U.S. Army Corps of Engineers (Corps) in partnership with the South Florida Water Management District (District) are conducting a feasibility study for the Central Everglades Planning Project (CEPP) (DHR Project File No. 2012-01115). For the feasibility study, Alternatives 1-4 included the construction of a spreader approximately 600 feet south and running parallel to the L-5 Levee in northern Water Conservation Area 3A (WCA-3A). In 2011 as part of the Modified Waters Delivery Project (MWD), Panamerican Consultants, Inc., conducted an Phase I survey within the spreader feature area resulting in report, Phase I Historical and Archaeological Survey of the Miami Canal within WCA-3A, Levee 4-5 Spreader Channel, and Levee 5 Spreader Channel Pump Station, Broward and Dade Counties (DHR Project File No.: 2012-2895/1A-32 Permit No.:1112.001). During the survey, sites 8BD4836, 8BD4837, and 8BD4838 were identified and recommended for further work to assess site significance. Therefore, in compliance with 36 CFR 800, the Corps conducted Phase II excavations of these three sites resulting in the enclosed draft report, Archaeological Testing of 8BD4836, 8BD4837, and 8BD4838, Addendum to Technical Report: Central Everglades Planning Project Water Conservation Areas 3A and 3B, Broward and Miami-Dade Counties, Florida (1A-32 Permit No.: 1213.002).

Based on research results, the Corps has determined that prehistoric sites 8BD4836, 8BD4837, 8BD4838 meet the criteria of eligibility for listing on the National Register of Historic Places under Criterion D. It should also be noted that each of these sites contains human remains and are therefore considered culturally sensitive to the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida.

During the analysis of each Alternative for the CEPP feasibility study, the proposed spreader feature along the L-5 Levee was removed from the project. Therefore, the Corps has determined that there will be no effect to sites 8BD4836 – 8BD4838.

-2-

As per request of the Deputy Historic Preservation Officer, Dr. Timothy Parsons, the draft report titled, Archaeological Testing of 8BD4836, 8BD4837, and 8BD4838, Addendum to Technical Report: Central Everglades Planning Project Water Conservation Areas 3A and 3B, Broward and Miami-Dade Counties, Florida has been provided electronically for review.

In accordance with Section 106 of the *National Historic Preservation Act of 1966*, as amended, we ask for your comments on the above referenced draft report and concurrence on the Corps eligibility and effects determinations within 30 calendar days of receipt of this letter. If you have any questions, please contact Ms. Cindy Thomas at (904) 232-1180 or via email Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Eric Samma Chief, Environmental Branch

Copy Furnished:

Dr. Timothy Parsons, Compliance Review Supervisor, Deputy State Historic Preservation Officer.



Package Status

Package 1659923
ID: Cynthia Thomas
Narrel
Sendors Cynthia, g.thomas2@ss.army.ml
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Dale 8/13/2013 4/25/42 PM
Uploaded
Description
PREES SHARED 1. Consultation Letter 2. WCA 3 Draft Addendum Report Phase II Excuration of sites 8/09/43/5 8/09/43/5 Please review the
electronically shared CEPP WCA 3 Draft Addendum Report Phase II Excuration of sites 8/09/43/5 8/09/43/5 Please review the
electronically shared CEPP WCA 3 Draft Addendum Report and transmittal
letter. A hard copy of the transmittal letter will be sent via U.S. Postal Service.
Please contact Condy Thomas at Cynthia G. Thomas@seace.army.ml should you
have any questions.

Delete 8/27/2013
Date:

Package Contents

File(s)	Privacy Aci Data
WCA 3 Phase 8 Addendum Revised Draft Report pdf (15 MB)	No
(2013-8-13) USACE to SHPO CEPP WCA3 Addendum Phase II Draft Rpt Urr.pdf (184 KB)	No

Uplead more files to Pockage.

Recipients List

Recipients	Downloaded
Robert Benaus@DOS MyFlorida.com	False
Timothy Parsons@DOS.MyFlorida.com	False
cynthia.g.thomas@usace.army.mk	False

New Recipient:

☐ Resend Delivery Notice To: -Select Control-

Ade



Document Transmittal Form

Date:	September 11, 2013	
To:	Timothy Parsons, Deputy State Historic Preservation Officer	
Organization:	Division of Historical Resources	
Address:	500 South Bronough Street Tallahassee, Florida 32399-0250	
Contact No.:	(850) 245-6339	
Items Sent:	Final report titled, "Central Everglades Planning Project, Cultural Resources Investigations of Everglades Agricultural Area Cell A-2, Palm Beach County, Florida DHR Project File No. 2012-01115	
Sent By: Contact No.:	Cindy Thomas (904) 232-1180	
Transmitted Via:	FED-EX	
Message:	Enclosed are two bound copies of the final report and one unbound copy of FMSF forms.	
	Please forward a bound copy to Dan Seinfeld, FRAR, Thanks, Cindy	

Please forward a bound copy to Dan Seinfeld, FBAR. Thanks, Cindy



Document Transmittal Form

Date:	September 11, 2013
To:	Timothy Parsons, Deputy State Historic Preservation Officer
Organization:	Division of Historical Resources
Address:	500 South Bronough Street Tallahassee, Florida 32399-0250 (850) 245-6339
Items Sent:	Final report titled, "Phase I Archeological Survey of a 5.38-Mile Corridor Along the L-67 Extension, Miami-Dade Counties, Florida" DHR Project File No. 2012-
Sent By: Contact No.:	Cindy Thomas (904) 232-1180
Transmitted Via:	FED-EX
Message:	Enclosed is one bound copy of the final report. Thanks, Cindy



Document Transmittal Form

Date:	September 11, 2013	
To:	Timothy Parsons, Deputy State Historic Preservation Officer	
Organization:	Division of Historical Resources	
Address: Contact No.:	500 South Bronough Street Tallahassee, Florida 32399-0250 (850) 245-6339	
Items Sent:	Final report titled, "Technical Report: Performance Work Statement #W912EP-10-D-0018, Central Everglades Planning Project Cultural Resources Survey of Water Conservation Areas 3A and B, Broward and Miami-Dade Counties, Florida" DHR Project File No. 2012-01115	
Sent By: Contact No.:	Cindy Thomas (904) 232-1180	
Transmitted Via:	FED-EX	
Message:	Enclosed is two bound copies of the final report and one unbound copy of FMSF forms.	
	Please forward a copy to Dan Seinfeld, FBAR, Thanks, Cindy	



Document Transmittal Form

Date: 2013 Sept 21

To: Margo Schwadron, Acting Chief, Cultural Resources, Everglades and Dry Tortugas

National Park

cc: Paul O'Dell

Organization: Everglades National Park

Address: 40001 State Road 9336

Homestead, Florida 33034

Contact No.: (863) 983-6549 Ext. 12244

Final report titled, "Phase I Archeological Survey of a 5.38-Mile Corridor Along the Item(s) Sent:

L-67 Extension, Miami-Dade County, Florida"

Sent By: Cindy Thomas (904) 232-1180 Contact No.:

Transmitted Via: Electronic Fileshare

Message: Hello Margo and Paul,

> Hope you guys are faring well down there. I have made all but one of the suggested changes from STOF THPO on the above mentioned report. I felt the last comment

was a matter of preference and did not change the content. We are

marking this one final! Thanks again for all your help Paul.

Wish you both the best,

Cindy

CESAJ-PPD MEMORANDUM FOR RECORD

SUBJECT: Pilot Program, Central Everglades Planning Project (CEPP), Florida, Advisory Council on Historic Preservation (ACHP) Conversation Regarding Cultural Resources and Section 106 Compliance on 20 September 2013.

- 1. Background: During the CEPP IPR 3.1, the USACE HQ advised the SAJ to consult with the ACHP under 36 CFR 800 Appendix A to ask for participation in consultation for the CEPP (Enclosure 1). On 2012 June 06 the SAJ invited ACHP to participate (Enclosure 2) they accepted on 2012 August 17 (Enclosure 3). Since then, the ACHP has participated in bimonthly and monthly cultural resource consultation meetings lead by the SAJ since that time.
- 2. Purpose: The purpose of this memorandum is to document discussions between staff Archeologist and staff with the Advisory Council on Historic Preservation, and to summarize suggested actions necessary to end Section 106 consultation for the feasibility phase of the CEPP with the understanding that consultation will continue once the project is authorized. The meeting was conducted via teleconference with the Tom McCullouch of the ACHP office and the SAJ CEPP staff Archeologist Cynthia G. Thomas.
- 3. Overview: This meeting focused on discussions on the CEPP Section 106 compliance efforts.
- 4. Questions and Recommendations: The following questions were directed to the ACHP and responses were documented.
 - a. How does the ACHP feel about the expedited process used for the CEPP with regards to Section 106 and 36CFR 800?
 - 1. The ACHP identified the project as being very complex with different consulting parties, conflicting interests of those consulting parties, and different land management practices. The study area's area of potential effect covers state owned lands, Tribal lands, and National Park Service lands, different levels of complexity than most projects. The ACHP referred to CEPP as appearing like the perfect storm.
 - 2. The ACHP stated that currently all parties are cooperating and consultation has been very successful.
 - 3. The ACHP asked if consulting parties understood the Federal process. The SAJ explained that multiple attempts had been made to educate the group being that many of the key consultation representatives are new to the process due to recent turnovers (State Historic Preservation Officer, Deputy State Archaeologist, Seminole Tribe of Florida Tribal Historic Preservation Office staff). The SAJ discussed the PCC1 and PCC2 class recently attended by staff from both the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida. Tuition was funded by the SAJ to assist these key partners in understanding our Federal planning process. Also discussed multiple efforts made by the CEPP Archeologist to further educate those involved.
 - b. Will ACHP formalize their observations of the project process in a letter?
 - 1. The ACHP stated that there would be no need for a letter, however the suggested that a memo be written by SAJ providing an overview of the effort as of 19 Dec 2013. The ACHP also suggested that SAJ send a letter to all participants summarizing what had taken place during the CEPP study with regards to cultural resources, specifying decisions made and actions taken. The ACHP offered assistance in reviewing the letter for required language prior to mailing. The SAJ concurred with all suggestions and established a December deadline for completion of formal consultation for the feasibility phase of the CEPP with the understanding

that consultation will continue once the project is authorized and the CEPP enters into the Preconstruction, Engineering and Design phase.

Kimberley A. Taplin

Chief, Central Everglades Branch

- c. Does the ACHP have any suggestions for how the process could have potentially worked better. 1. The ACHP had no suggestions.
- 5 . Actions/Conclusion: The draft consultation summary letter will be sent to Tom McCullouch with the ACHP for review NLT 15 November 2013 and will include Section 106 consultation required attachments for the CEPP in its entirety.

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Cynthia G. Thomas

Archeologist, Central Everglades Branch

CESAJ-PPD MEMORANDUM FOR RECORD

SUBJECT: Pilot Program, Central Everglades Planning Project (CEPP), Florida, In Progress Review #3.1, Cultural Resources on 10 April 2012

- 1. Purpose: The purpose of this memorandum is to document the vertical team discussion, concurrence, and to summarize required actions that are necessary to reach Decision Point (DP) # 2. In Progress Review (IPR) #3.1 was conducted via teleconference and webinar with the South Florida Water Management District, OASA(CW), HQUSACE and SAD. A list of attendees is provided as Attachment 1.
- 2. Overview: This IPR was topic specific and focused on discussion of the cultural resources efforts being conducted for CEPP. The SAJ presentation for discussion included: 1) a general overview of the study, 2) a description of the areas of potential effect;3) a description of the existing information in the potential areas of effects; 4) an explanation of the proposed sampling strategy for WCA-3, and 5) the proposed schedule and cost for undertaking cultural resource surveys in WCA-3.
- 3. Issues, Discussion and Decisions: The following issues were discussed and recommended steps were established with the vertical team. These recommended steps are identified as "Actions."
 - a. Identification of historic/cultural sites and determination of eligibility: The SAJ team described the consultation that has taken place to date with the Tribes THPO and SHPO on the approach being undertaken in accordance with our Section 106 requirements. It was explained that the consultation and coordination to date has been through formal letters, meetings, email and meeting summaries. HQ advised that formal documentation from the Tribes was a better path forward and all agreed to make an effort to obtain formal documentation. Such documentation will likely be received from the Seminole Tribe but is unlikely to be received from the Miccosukee Tribe. In the absence of formal documentation, the email correspondence and meeting summaries will serve to document the required coordination and consultation. The team was asked whether coordination with the Advisory Council had been undertaken. The team indicated that no coordination with the Advisory Council had occurred to date.

ACTIONS: The District will coordinate with the Advisory Council and will follow-up with HQ about the reaction. Paul Rubenstein suggested that SAJ keep a formal record of the request and follow Appendix A.

Determination of Effects: The team explained that the PIR will document the assessment of effects based upon existing information and the cultural resources survey information being collected in WCA-3 and A-2 sites in the EAA for CEPP. The team identified that there may be a need for additional survey data to be collected depending upon the final A-2 construction footprint associated with the yet to be defined recommended plan. The team

further explained that a study to assess effects from changing water levels is being undertaken as part of ERTP. For ERTP, the assessment will be based on those sites identified in the ERTP study. A ROD and PA is expected to be completed for ERTP within the next month. The CEPP PIR will describe how the ERTP study and documentation relate to the CEPP. It was noted that the Section 106 consultation may not be completed by the time the PIR and ROD are completed. It was agreed and understood that the PIR will document the consultation conducted throughout the CEPP study and describe the consultation that will need to be continued subsequent to completion of the PIR and ROD for CEPP. The PIR will include a cost analysis that takes into account any NHPA issues and will include appropriate contingencies.

4. Conclusion: There was a brief summary of the outcome of the discussions at the end of the meeting and all participants agreed upon the stated outcomes.

Eric L Bush Chief, Planning and Policy Division

31 January 2013

SAJ	Discipline		
Stuart Appelbaum	Chief, Planning Division. SAJ		
Eric Summa	Chief, Environmental Branch, SAJ		
Kim Taplin	Chief, Central Everglades Study Branch, SAJ		
Ray Wimbrough	Plan Formulation, PTL, SAJ		
Natalie Garrett	Tribal Liaison, SAJ		
Brad Foster	Plan Formulation, PTL SAJ		
Melissa Nasuti	Ecosystem Evaluation , SAJ		
Gina Ralph	Environmental, NEPA , SAJ		
Kevin Wittmann	Economics SAJ		
Kim Vitek	Project Manager , SAJ		
Murika Davis	Engineering Lead , SAJ		
Cynthia Thomas	Cultural Resources , SAJ		
Brooks Moore	Office of Council, SAJ		
Dan Hughes	Environmental Branch, SAJ		
SFWMD participants			
Matt Morrison	Project Manager, SFWMD		
Tom Teets	SFWMD		
Beth Lewis	SFWMD		
Paul Warner	SFWMD		
Meghan Jacoby SFWMD			
Armando Ramirez	SFWMD		
SAD			
Mike Magley	Plan Formulation		
Wilbert Paynes	Chief, Planning		
HQ			
Steve Kopecky	SAD-RIT Planner		
Stacey Brown	SAD-RIT		
Lee Ware	Office of Water Project Review		
Jeanette Gallihugh	Office of Water Project Review		
Paul Rubenstein	Policy Analyst		
Katherine Chekouras	Counsel		



JUN 0 6 2017

REPLY TO

Planning Division Environmental Branch

Mr. Reid Nelson Advisory Council on Historic Preservation Old Post Office Building 1100 Pennsylvania Avenue, NW, Suite 803 Washington, DC 20004

Dear Mr. Nelson:

The U.S. Army Corps of Engineers (Corps) and the Assistant Secretary of the Army senior leadership have collaboratively worked to identify and discuss opportunities to modernize the Civil Works Planning Program to better address water resources challenges that face the nation. One priority for addressing these challenges is shortening the time between initiation of a planning study and initiation of construction by incorporating both the current Reconnaissance and Feasibility phases into a single cohesive preauthorization process in a targeted goal of 18 months.

The Central Everglades Planning Project (CEPP) is one of seven projects chosen to be a part of the Corps initiated National Planning Pilot Program. The CEPP is identified as a multiagency study with the Corps as the lead agency in partnership with the South Florida Water Management District (SFWMD). The target of the CEPP is to deliver within two years, a finalized plan known as a Project Implementation Report (PIR) for a suite of restoration projects in the central Everglades. This PIR is in preparation to seek Congressional authorization for the CEPP as part of the Comprehensive Everglades Restoration Plan (CERP) implemented in 1999. Enclosure 1 provides information regarding the approach for the new study plan. Also, visit http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx for further information regarding CEPP including but not limited to public comments, Working Group Meetings and Planning and Development Team Meetings.

Under Section 106 of the National Historic Preservation Act of 1966, as amended and implementing regulations 36CFR 800, as amended, we are assessing our needs for information regarding historic properties that may be affected by the undertaking. Although the exact suite of previously implemented projects have yet to be determined, due to the expeditious nature of CEPP, the Corps has completed an extensive review of LiDar data, historic and modern aerial photographs, and historic land records (e.g. General Land Office, plat maps, surveyors notes, etc.) to ascertain high probability of historic sites location. In addition, USACE has conducted

an extensive search of the Florida Bureau of Archaeological Research, Florida Master Site Files (FMSF) to identify previously recorded cultural resource sites within the study area, and to ascertain the adequacy of past cultural resource surveys conducted within the larger CERP study area (Enclosure 2). Simultaneously, as previously implemented projects are identified to be a part of CEPP we will continue to do consultation, background reviews, cultural resource surveys, and determinations of significance and eligibility for listing of historic properties to the National Register of Historic Places until compliance with the National Historic Preservation Act is complete.

Enclosure 3 provides a summary of previous cultural resources investigations within the CEPP Feasibility Study area of potential effect (APE), in addition to a summary of project specific alternatives for many of the previously implemented projects under consideration for the CEPP. Currently, only two previously implemented projects have been identified as part of the CEPP: Decomp and Component A-1 and A-2. Through consultation with the State Historic Preservation Office (SHPO), the Seminole Tribe of Florida Tribal Historic Preservation Office (STOF-THPO), and the Miccosukee Tribe of Indians of Florida Cultural Resource Representative, it was determined that identification and assessment of historic properties within the areas is warranted, therefore a sampling strategy and field testing plan was developed. Fieldwork for WCA3 will be completed prior to the PIR, however, due to litigation between the SFWMD and the leasee that is currently preventing access to the property, fieldwork for Component A-1 and A-2 may be delayed until after the PIR, but prior to construction. As stated previously, once other previously implemented projects are identified, we will continue with the Section 106 process until complete. Finally, once the final array of alternatives are selected we will then determine effects, if any, and provide documentation in accordance with 36 CFR 800.11.

In addition to contacting your office, Corps has identified other potential consulting parties, and pursuant to 36 CFR 800.4, is consulting with Florida federally recognized tribal governments (Miccosukee Tribe of Indians of Florida, and Seminole Tribe of Florida) on at least a bi-weekly basis, Florida's SHPO, and Everglades National Park (Enclosure 4).

At this time, the Corps would like to extend an invitation for you or a designated member of your staff to review the information provided to determine whether to enter into consultation pursuant to Appendix A, *Criteria for Council Involvement in Reviewing Individual Section 106 Cases*, of 36 CFR Part 800. Ms. Cindy Thomas has been designated as Corps Staff Archaeologist for CEPP. Any questions or concerns that you may have can be addressed by Ms. Thomas by contacting her at (904) 232-1180 or via email: Cynthia.G.Thomas@usace.army.mil.

Sincerely.

7 Eric Summa

Chief, Environmental Branch

Kennets R Propos

Milford Wayne Donaldson, FAIA Chairman

Clement A. Price Ph.D. Vice Chairman

John M. Fowler Executive Director



Preserving America's Heritage

August 17, 2012

Lieutenant General Thomas P. Bostick Commanding General U.S. Army Corps of Engineers 441 G. Street, NW Washington, DC 20314-1000

REF: Project Implementation Report for the Central Everglades Planning Project

Dear Lieutenant General Bostick:

The Advisory Council on Historic Preservation (ACHP) has been invited to participate in the referenced undertaking by the Jacksonville District of the Corps of Engineers to help ensure that historic properties are fully considered in the management and control of water resources in the Everglades. Pursuant to the Criteria for Council Involvement in Reviewing Individual Section 106 Cases (Appendix A to our regulations, 36 CFR Part 800) we believe the criteria are met for our participation in this undertaking. Development and implementation of plans to better manage water resources will involve important questions of policy and interpretation and could have substantial impacts to important historic properties. Accordingly, the Advisory Council on Historic Preservation will participate in consultation with the Jacksonville District on this undertaking.

By copy of this letter we are also notifying Mr. Eric Summa, Chief of the Jacksonville District's Environmental Branch, of our decision to participate in consultation.

Our participation will be handled by Dr. Tom McCulloch, who can be reached at 202-606-8554 or at tmcculloch@achv.gov. We look forward to working with the Corps on this important project.

Sincerely.

John M. Fowler Executive Director

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FISH and WILDLIFE COMMISSION	*				
X STATE	-				
TRANSPORTATION					
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FLORIDA DEPARTMENT Of STATE

RICK SCOTT Governor KEN DETZNER Secretary of State

October 1, 2013

Ms. Lauren P. Milligan Florida Department of Environmental Protection 3900 Commonwealth Boulevard, MS 47 Tallahassee, FL 32399-300

Re: DHR Project File No.: 2013-4293

Corps of Engineers – Draft Integrated Project Implementation Report and Environmental Impact Statement, Central Everglades Planning Project (CEPP)

Dear Ms. Milligan:

Our office reviewed the draft PIR/EIS for the Central Everglades Planning Project in accordance with the National Environmental Policy Act of 1969 and implementing regulations. We find the document to be consistent with federal regulation regarding the treatment of historic properties/cultural resources under NEPA.

As noted in Appendix C.2.1.7 of the document, Section 106 consultation regarding the potential effects of CEPP operations on historic properties is ongoing. We will continue to work with our federal, state, and tribal partners as the project progresses to ensure compliance with Section 106, and to minimize impacts to historic properties.

If I can be of any further help, or if you have any questions about this letter, please feel free to contact me at timothy.parsons@dos.myflorida.com, or at 850.245.6333 or 800.847.7278.

Sincerely

Timothy A. Parsons, Ph.D., RPA Compliance Review Supervisor

and Deputy State Historic Preservation Officer

Pc. Eric P. Summa

Chief, Environmental Branch Jacksonville District Corps of Engineers P.O. Box 4970

Jacksonville, FL 32232-0019



DIVISION OF HISTORICAL RESOURCES
R. A. Gray Building • 500 South Bronough Street • Tallahassee, Florida 32399-0250
Telephone: 850.245.6300 • www.flheritage.com
Commemorating 500 years of Florida history www.vivaflorida.org





RICK SCOTT Governor KEN DETZNER Secretary of State

Ms. Cindy Thomas Jacksonville District Corps of Engineers P.O Box 4970 Jacksonville, Florida 32232-0019 October 7, 2013

Re: DHR Project File No.: 2013-3571 / 1A-32 Permit No.: 1213.002
Technical Report: Performance Work Statement #W912EP-10-D-0018, Central
Everglades Planning Project Cultural Resources Survey of Water Conservation Areas 3A
and 3B, Broward and Miami-Dade Counties, Florida

Dear Ms. Thomas:

Our office received and reviewed the above referenced report in accordance with Section 106 of the National Historic Preservation Act of 1966 (Public Law 89-665), as amended in 1992, and 36 C.F.R., Part 800: Protection of Historic Properties, and Chapters 267, Florida Statutes, for assessment of possible adverse impact to cultural resources (any prehistoric or historic district, site, building, structure, or object) listed, or eligible for listing, in the National Register of Historic Places (NRHP).

Between June 2012 and July 2013, New South Associates, Inc. (New South) conducted a Phase I cultural resource assessment survey of Water Conservation Areas 3A and 3B on behalf of the Jacksonville District of the U.S. Army Corps of Engineers. During the archaeological survey, 15 sites were investigated. Five were previously known sites that did not produce any cultural material. New South recommends that these sites be revisited during the dry season. The remaining 10 sites were all previously unrecorded. Of these 10 sites, nine (8BD4974, 8BD4975, 8BD4976, 8BD4977, 8BD4978, 8BD4979, 8BD4980, 8BD4981, and 8BD4982) were determined to be eligible for listing in the NRHP under Criterion D, and one (8DA12830) was not evaluated. New South recommends further testing for sites 8BD4975, 8BD4976, 8BD4978, 8BD4979, 8BD4980, 8BD4981, and 8DA12830, and avoidance for sites 8BD4974, 8BD4977, and 8BD4982 due to the presence of human remains.



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Ms. Thomas October 7, 2013 Page 2

During the historic structures portion of the survey, six historic canals and 20 structures/properties associated with the canals were examined. Of the 20 structures/properties, only five were 50 or more years old. The sections of Miami Canal (8BD4840/8DA6525) and South New River Canal (8BD4153) were determined to be eligible for listing in the NRHP. In addition, structures 8BD4984 and 8DA12827 were also determined to be eligible for listing in the NRHP. Three historic canals/levees (8BD4987/8DA12829, 8BD4988, AND 8DA12826), and two historic bridges (8BD4986 and 8DA12828) were recommended not eligible for listing in the NRHP. New South recommends further testing for 8BD4985.

Based on the information provided, our office concurs with these determinations and finds the submitted survey report complete and sufficient in accordance with Chapter 1A-46, Florida Administrative Code.

For any questions concerning our comments, please contact Deena Woodward, Community Assistance Consultant by electronic mail at deena.woodward@dos.myflorida.com, or by phone at 850.245.6333. We appreciate your continued interest in protecting Florida's historic properties.

Sincerely

Robert F. Bendus, Director Division of Historical Resources and State Historic Preservation Officer



RICK SCOTT

Governor

KEN DETZNER

Secretary of State October 15, 2013

Ms. Cindy Thomas Jacksonville District Corps of Engineers P.O Box 4970 Jacksonville, Florida 32232-0019

DHR Project File No.: 2013-4407 / Received by DHR: September 17, 2013

Phase I Archaeological Survey of a 5.38-Mile Corridor Along the L-67 Extension, Miami-Dade

County, Florida

Dear Ms. Thomas:

Our office received and reviewed the above referenced report in accordance with Section 106 of the National Historic Preservation Act of 1966 (Public Law 89-665), as amended in 1992, and 36 C.F.R., Part 800: Protection of Historic Properties, and Chapters 267, Florida Statutes, for assessment of possible adverse impact to cultural resources (any prehistoric or historic district, site, building, structure, or object) listed, or eligible for listing, in the National Register of Historic Places (NRHP).

In January 2013, the Corps with the assistance of the Everglades National Park (ENP) staff conducted a Phase I archaeological survey within the proposed L-67 Extension APE corridor. The Corps identified no cultural resources within the project area during the investigation. The Corps determined that the proposed project will have no effect on cultural resources listed, or eligible for listing in the NRHP, or otherwise of archaeological, historical, or architectural significance. If alterations to the L-67 extension take place after the levee, canal, and associated features have reached 50 years, this office concurs with the recommendation from the Corps that these resources are revisited and recorded for the Florida Master Site File.

Based on the information provided, our office concurs with these determinations and finds the submitted report complete and sufficient in accordance with Chapter 1A-46, Florida Administrative Code.

For any questions concerning our comments, please contact Sarah Liko, Historic Sites Specialist, by electronic mail at Sarah.Liko@DOS.MyFlorida.com, or by phone at 850,245.6333. We appreciate your continued interest in protecting Florida's historic properties.

Sincerely

Robert F. Bendus, Director Division of Historical Resources

and State Historic Preservation Officer



DIVISION OF HISTORICAL RESOURCES R. A. Gray Building • 500 South Bronough Street • Tallahassee, Florida 32399-0250 Telephone: 850.245.6300 • www.flheritage.com Commemorating 500 years of Florida history www.VivaFlorida.org





Document Transmittal Form

Date:	January 15, 2014
To:	Timothy Parsons, Deputy State Historic Preservation Officer
Organization:	Division of Historical Resources
Address:	500 South Bronough Street Tallahassee, Florida 32399-0250
Contact No.:	(850) 245-6339
Items Sent:	Final report titled, "Phase I Historical and Archaeological Survey of the Miami Canal within WCA-3A, Levee 4-5 Spreader Channel, and Levee 5 Spreader Channel Pump Station, Broward and Dade Counties, Florida" DHR Project File No. 2012-2895 / 1A-32 Permit No.: 1112.001
Sent By: Contact No.:	Daniel Hughes (904) 232-3028
Transmitted Via:	FED-EX
Message:	Enclosed are one bound copy of the final report and one unbound copy of FMSF forms.
	Also enclosed is correction/clarification, and updated and/or new FMSF forms, that should accompany the above referenced report. These documents have been provided as hard copies.

Please contact me should you have any questions.

Appendix C.5 Cultural Resources

C.5.4 Written Correspondence: Native Americans

December 07, 2011 USACE to MTIF CEPP Invitation to Public Workshops

December 07, 2011 USACE to STOF CEPP Invitation to Public Workshops

December 27, 2011 USACE to MTIF CEPP Invitation Section 106 Consultation Bi-Weekly

December 27, 2011 USACE to STOF CEPP Invitation Section 106 Consultation Bi-Weekly

January 20, 2012 MTIF to USACE CEPP NEPA Scoping Response Letter

March 06, 2012 USACE to STOF CEPP WCA 3 and EAA Field Testing Plan

March 06, 2012 USACE to MTIF CEPP WCA 3 and EAA Field Testing Plan

July 10, 2012 STOF to USACE Modified Waters Deliveries WCA3 L4 and L5 Spreader and Pump Station Report Comments

July 12, 2012 USACE to MTIF CEPP WCA 3 Signed Survey Plan

September 26, 2012 STOF to USACE Requesting CEPP Human Remains Policy

October 15, 2012 USACE to STOF Response Letter to STOF Letter Dated 9-26-2012 Regarding CEPP
Human Remains Policy

November 07, 2012 STOF to USACE Response Letter to USACE Letter Dated 10-05-2012 Regarding Big Cypress Reservation Hydration (S-190 and Western Basins)

March 19, 2013 STOF to USACE Follow-up Letter to 03-08-2013 Meeting - CEPP Development of Adaptive Management Plan and MOA

April 01, 2013 USACE to STOF CEPP WCA3 Phase I Draft Report Request for Section 106 Review

April 01, 2013 USACE to MTIF CEPP WCA3 Phase I Draft Report Request for Section 106 Review

May 23, 2013 STOF to USACE WCA3 Phase I Draft Report Comments – Response to 05-01-2013 Letter

June 19, 2013 USACE to STOF Response Letter to STOF Letter Dated 03-19-2013 and Follow-up Letter to STOF Face To Face Meeting 05-15-2013 – CEPP Adaptive Management and MOA.

July 16, 2013 STOF to USACE Email and Attachment - STOF Comments on Working Rough Draft PIR/EIS

July 26, 2013 USACE to MTIF CEPP EAA A-2 Phase | Draft Report Request for Section 106 Review

July 26, 2013 USACE to STOF CEPP EAA A-2 Phase I Draft Report Request for Section 106 Review

July 26, 2013 USACE to MTIF CEPP L-67 Extension Phase I Draft Report Request for Section 106 Review

July 26, 2013 USACE to STOF CEPP L-67 Extension Phase | Draft Report Request for Section 106 Review

August 13, 2013 USACE to MTIF CEPP WCA3 Addendum Phase II Draft Report Request for Section 106
Review

August 13, 2013 USACE to STOF CEPP WCA3 Addendum Phase II Draft Report Request for Section 106 Review

August 21, 2013 USACE to STOF Transmittal Letter for CEPP WCA3 Phase I Final Report (FTP Fileshare)

August 26, 2013 STOF to USACE CEPP EAA A-2 Draft Report Comments - Response to 7-26-2013 Letter

September 21, 2013 USACE to STOF Transmittal Letter for CEPP EAA A-2 Phase I Final Report

September 21, 2013 USACE to STOF Transmittal Letter for CEPP L-67 Extension Phase I Final Report

September 21, 2013 USACE to STOF Transmittal Letter for CEPP WCA3 Phase I Final Report (Fed-ex)

October 15, 2013 STOF to USACE CEPP Draft PIR-EIS Comments

November 20, 2013 USACE to STOF Response Letter to STOF CEPP Draft PIR/EIS Comment Letter Dated 10-15-2013 ***See Appendix C.3, Table C.3.3-2 Draft PIR/EIS Comment Response Matrices, under "Seminole" for more detailed responses to each comment.

January 26, 2014 USACE to STOF Modified Waters Deliveries WCA3 L4 and L5 Spreader and Pump Station Final Report and USACE Corrections



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS

P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF DEC 0 7 2011

Planning and Policy Division Environmental Branch

Honorable Colley Billie Chairman, Miccosukee Tribe of Indians of Florida Post Office Box 440021, Tamiami Station Miami, Florida 33144

Dear Chairman Billie:

The Jacksonville District, U.S. Army Corps of Engineers (Corps) is beginning preparation of a National Environmental Policy Act assessment for the Central Everglades Planning Project. The goal of the Central Everglades Planning Project would be to develop an integrated, comprehensive technical plan for the first increment of project features to be recommended for authorization for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem. The Corps respectfully requests to meet with you and your staff routinely throughout this planning process to ensure any issues or concerns the Tribe may have are identified and we receive your input regarding the development of this plan. Additionally, the Corps would also like to invite you or your designated staff to participate on the Project Delivery Team that will be conducting the technical analyses and evaluations in support of plan development and selection. I, along with select staff, would be pleased to meet with you to discuss Central Everglades Planning Project.

The Everglades ecosystem encompasses a system of diverse wetland landscapes that are hydrologically and ecologically connected across more than 200 miles from north to south and across 18,000 square miles of southern Florida. In 2000, the U.S. Congress authorized the Federal government, in partnership with the State of Florida, to embark upon a multi-decade, multi-billion dollar Comprehensive Everglades Restoration Plan (CERP) to further protect and restore the remaining Everglades ecosystem while providing for other water-related needs of the region. CERP involves modification of the existing network of drainage canals and levees that make up the Central and Southern Florida Flood Control Project.

Since 2000, much progress has been made. Construction has begun on the first generation of CERP project modifications already authorized by Congress. These include the Picayune Strand Restoration, the Indian River Lagoon South and Site 1 Impoundment projects. Project Implementation Reports have been completed, or are nearing completion, for the second generation of CERP projects for Congressional authorization, including Biscayne Bay Coastal Wetlands – Phase 1, the Broward County Water Preserve Areas, the Caloosahatchee River (C-43) West Basin Storage Reservoir, and the C-111 Spreader Canal Western Project. All of these CERP projects utilize lands that were acquired by the State and Federal government to meet CERP goals of increasing the extent of wetlands, reducing damaging freshwater discharges to the coastal estuaries, and reducing seepage losses from the natural system. These projects contribute significant ecological benefits to the system and the specific regional habitats in which they are located. These initial CERP projects were intended to provide initial and immediate ecological benefits and set the conditions along the margins of the system that help ensure increased water flows to the interior of the system will not cause adverse effects.

The next step for implementation of CERP is to redirect water that is currently discharged to the east and west coast estuaries from Lake Okeechobee and restore water flow to the south, allowing for restoration of natural habitat conditions and water flow in the central Everglades and re-connecting the ecosystem from Lake Okeechobee to Everglades National Park and Florida Bay. The Central Everglades Planning Project (Figure 1) will develop the initial increment of project features that provide for storage, treatment and conveyance south of Lake Okeechobee, removal of canals and levees within Water Conservation Area 3, and seepage management features to retain water within the natural system. The CERP projects identified to accomplish this include the Everglades Agricultural Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park (ENP) Seepage Management, and Everglades Rain-Driven Operations. These projects make up the heart of CERP aimed at restoring more natural quantity, quality, timing and distribution of water flows to the remaining portions of the river of grass. An integrated study effort on these projects is needed to set the direction for continued CERP implementation.

The Corps will also hold a Public Workshop December 14 from 6:30 to 9:00 p.m. at the Sheraton Suites Plantation, Plantation I/II Room, 311 North University Drive, Plantation, Florida and December 15, 2011 from 6:30 to 9:00 p.m. at the John Boy Auditorium, 1200 South W.C. Owen Avenue, Clewiston, Florida. The formal portion of the workshop will begin at 7:00 p.m. The CES team will be available prior to and after the formal presentation to provide information and answer questions about the projects and development of a proposed plan. Interested attendees can call 904-232-1613 for any special services.

-3-

We look forward to the opportunity to meet with you. Please contact Kim Taplin 561-801-0285 at your earliest convenience to schedule.

Sincerely,

Afred A. Pantano, Jr. Colonel U.S. Army District Commander

Enclosure

Copy Furnished:

Bernie Roman, Miccosukee Tribal Attorney; PO Box 440021 Tamiami Station; Miami, Florida 33144

Fred Dayhoff, Section 106 and NAGPRA Consultant; PO Box 440021 Tamiami Station; Miami, Florida 33144

James Erskine, Water Resources Director; PO Box 440021 Tamiami Station; Miami, Florida 33144

Rory Feeney, Miccosukee Wildlife Director; PO Box 440021 Tamiami Station; Miami, Florida 33144

Terry Rice, Colonel (Ret'd), PhD, PE; Miccosukee Everglades Consultant; 6526 S Kanner Highway, PMB 316; Stuart, Florida 34997



REPLY TO

DEC 0 7 2011

Planning and Policy Division Environmental Branch

Honorable James Billie Chairman, Seminole Tribe of Florida 6300 Stirling Boulevard Hollywood, Florida 33024

Dear Chairman Billie:

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-3-

We look forward to the opportunity to meet with you. Please contact Kim Taplin 561-801-0285 at your earliest convenience to schedule.

Sincerely,

Alfred A Pantano, Jr. Colonel, U.S. Army District Commander

Enclosure

Copy Furnished:

Craig Tepper, Director of Water Resource Management, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Jim Shore, General Counsel, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Willard Steele, Seminole Tribe of Florida, Tribal Historic Preservation Officer, 30290 Josie Billie Highway, PMP 1004, Clewiston, Florida 33440

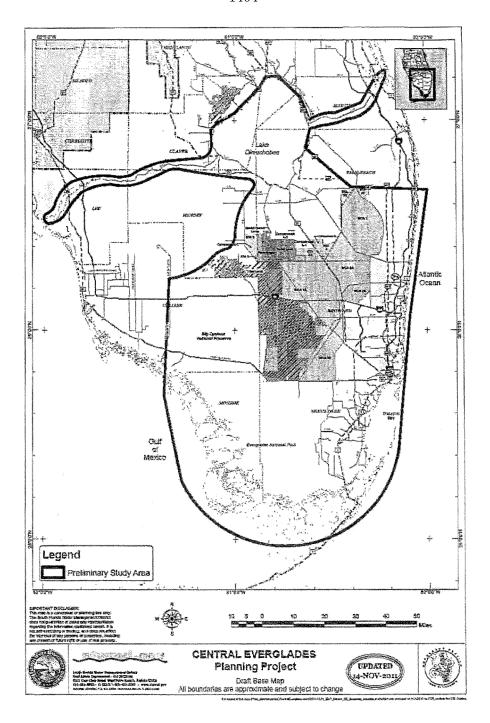


Figure 1. Central Everglades Planning Project Preliminary Study Area.



REPLY TO

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

DEC 27 2011

Planning Division Environmental Branch

Honorable Colley Billie Chairman, Miccosukee Tribe of Indians of Florida Post Office Box 440021, Tamiami Station Miami. Florida 33144

Dear Chairman Billie:

As stated in the National Environmental Policy Act scoping letter dated December 07, 2011, the U.S. Army Corps of Engineers (Corps), Jacksonville District, in partnership with the South Florida Water Management District (SFWMD), have initiated an 18-month expedited pilot project known as the Central Everglades Planning Project (CEPP). The goal of the CEPP is to develop an integrated, comprehensive technical plan for the first increment of project features to be recommended for authorization for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem. The scope of this project includes increments of the following Comprehensive Everglades Restoration Plan (CERP) components: Everglades Agricultural Area Storage Reservoirs, Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement, Everglades National Park Seepage Management, and Everglades Rain-Driven Operations.

Under Section 106 of the National Historic Preservation Act of 1966, as amended and implementing regulations 36 CFR Part 800, as amended, we are assessing our needs for information regarding historic or undocumented traditional cultural properties that might be affected by the undertaking. Although the exact project footprint has yet to be determined, due to the expeditious nature of CEPP, the Corps is currently conducting an extensive review of the Florida Master Site Files (FMSF) to identify previously recorded cultural resource sites and to ascertain the adequacy of past cultural resources surveys conducted within the larger CEPP study area. To insure internal deadlines are met for this project, FMSF review, identification of areas in need of Phase I Survey, and development of a survey methodology are projected to be completed by the end of January 2012. Tentatively, initiation of Phase I Surveys will start mid-March 2012. This will ensure that any necessary cultural resource investigations are completed in a timely manner.

-2-

Therefore, we would like to extend an invitation for you or a designated member of your staff to consult with us throughout this process to ensure that all concerns are addressed during these efforts. It is expected that one-on-one discussions regarding the project could take place as monthly or bi-monthly meetings, and either in person or via conference call. Ms. Cindy Thomas has been designated as Corps Staff Archaeologist for CEPP, and will be initiating contact with you (or designee) immediately upon response to this letter. Any questions or concerns that you may have at this time can also be addressed by Ms. Thomas by contacting her at (904) 232-1180 or via email: Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Alfred A Pantano, Jr Colonel, U.S. Army District Commander

Enclosure

Copies Furnished:

Mr. Bernie Roman, Miccosukee Tribal Attorney, PO Box 440021 Tamiami Station, Miami. Florida 33144

Mr. Fred Dayhoff, Section 106 and NAGPRA Consultant, PO Box 440021 Tamiami Station, Miami, Florida 33144

Mr. Rory Feeney, Fish and Wildlife Director, PO Box 440021 Tamiami Station, Miami. Florida 33144



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

Planning Division Environmental Branch

Honorable James Billie Chairman, Seminole Tribe of Indians,

6300 Stirling Boulevard Hollywood, Florida 33024

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Sincerely,

Alfred A Pantono, Jr. Colonel U.S. Army District Commander

Enclosure

Copies Furnished:

Mr. Willard Steele, Seminole Tribe of Florida, Tribal Historic Preservation Officer, 32090 Josie
 Billie Highway, PMP 1004, Clewiston, Florida 33440
 Jim Shore, General Counsel, Seminole Tribe of Florida, 6300 Stirling Road,
 Hollywood, Florida 33024

Thomas/CESAJ-PD-EP/1180
Kinard/CESAJ-DD
Applebaum/CESAJ-ED
Taplin/CESAJ-DR-W
Summa/CESAJ-ED-E
Acosta/CESAJ-PD-EP
fo/Garrett/CESAJ-PM-E CT 13/27
Vitek/CESAJ-PM
Goral/CESAJ-OC
// Hobbie/SESAJ-PMD
Gapinski/CESAJ-DX
LTC Barker/CESSAJ-DD
COL Pantano/CESAJ-DE



Miccosukee Tribe of Indians

Business Council Members Colley Billie, Chairman

Jasper Nelson, Ass't. Chairman Jerry L. Cypress, Treasurer

Andrew Bert Sr., Secretary William M. Osceola, Lawmaker

January 20, 2012

Via E-Mail and Express Mail

Re: Comments by the Miccosukee Tribe of Indians of Florida on the NEPA Scoping for the Central Everglades Planning Project (CEPP)

Attention: Dr. Gina Paduano Ralph at CEPPComments@usace.army.mil

Dear Colonel Pantano:

Enclosed, please find the official comments of the Miccosukee Tribe of Indians of Florida in response to your request regarding scoping for the Central Everglades Planning Project (CEPP) under the National Environmental Policy Act (NEPA).

For over 13 years, allegedly to protect the Cape Sable seaside sparrow, discriminatory water management actions have flooded and degraded hundreds of thousands of acres of Tribal Everglades in Water Conservation Area 3A that are vital to the culture and way of life of the Tribe. The high water levels caused by these actions also posed a threat to the health and safety of the Miccosukee community and brought the Snail Kite to the verge of extinction. Sadly, a vast area of the Everglades, which the government promised to preserve in a natural state *in perpetuity* for the Tribe, has been severely degraded.

Based upon our experts' review of the Corps' selected plan for the Everglades Restoration Transition Plan (ERTP) as presented in your recently released Final Environmental Impact Statement dated March 4, 2011, the Tribe is cautiously optimistic that the ERTP should begin to alleviate some of the harm in Water Conservation Area 3A caused by more than a decade of discriminatory water management actions. In addition, the Corps has an opportunity under the Combined Operational Plan for the Modified Water Deliveries and C-111 projects to move Everglades Restoration even further ahead. While this plan has yet to be developed, a water management plan that moves us farther toward

P.O. Box 440021, Tamiami Station, Miami, Florida 33144, (305) 223-8380, fax (305) 223-1011 Constitution Approved by the Secretary of the Interior, January 11, 1962 restoration would make significant strides in protecting the Miccosukee culture and cultural resources once implemented.

Now, the Corps is proposing the Central Everglades Planning Project to develop a plan for a suite of projects in the Central Everglades to prepare for Congressional authorization as Comprehensive Everglades Restoration Plan (CERP). As you know, the Tribe has long raised concerns that vital restoration projects were being delayed and that the Central Everglades was being left out of the CERP process. Therefore, the Tribe is pleased to see an emphasis on projects for the central Everglades, which is the Tribe's traditional homeland. The Tribe, which has participated in more than twenty years of restoration planning, is concerned that to date no CERP projects that would benefit the Central Everglades, including Tribal lands, have been built. The Tribe is hopeful that the CEPP process will not turn into yet another planning process that produces no restoration results. In addition, care must be taken to ensure that projects are designed and implemented in such a way that they follow all applicable law. Finally, any so-called "new science" must not be used to attempt to justify sacrificing the Tribal Everglades in WCA-3A for the Park downstream. Thus, we believe it is very important that you sincerely consider, and adequately address, during your NEPA process, all the issues and concerns that have been identified by our experts if you are to actually achieve success.

As always, the Tribe expects that all agencies not only comply with all federal environmental statutes, but also with their Trust Responsibility to the Miccosukee people.

Finally, the Tribe hopes that the plan that is devised will treat all parts of the Everglades, and all species, equally and will only deliver water that is clean. Only by protecting all parts of the Everglades equally, and delivering clean water, will the goal of Everglades Restoration be achieved.

Sincerely,

Chairman

MEMORANDUM

TO: Chairman Colley Billie

Miccosukee Tribe of Indians of Florida

FROM: Mr. James Erskine, Acting Miccosukee Water Resources Director; Mr. Rory

Feeney, Miccosukee Wildlife Director; Col. (Ret'd) Terry L. Rice, PhD, PE;

Ms. Joette Lorion, Environmental Consultant

DATE: January 13, 2012

SUBJECT: Identification of Issues and Concerns to Be Addressed in the Central Everglades

Planning Project ("CEPP") National Environmental Policy Act ("NEPA")

Document Proposed by the US Army Corps of Engineers.

The following memorandum includes our expert analyses of the issues and concerns that the Army Corps of Engineers ("Corps") should address in the National Environmental Policy Act ("NEPA") document that the Corps plans to prepare related to the Central Everglades Planning Project ("CEPP"). The Notice of Intent to prepare an Environmental Impact Statement ("EIS") for CEPP was issued in the Federal Register on December 2, 2011. A Public Notice sent by the Corps stated that: "Public comments on the Central Everglades Planning Project are being accepted through January 20, 2012. Thus, we recommend that this memorandum be submitted to the U.S. Army Corps of Engineers on or before January 20, 2012, as the Miccosukee Tribe's issues and concerns.

Background: Beginning as early as the 1880s, humans began modifying the natural hydrology of South Florida and the Everglades. Over the years, anthropogenic changes have, among other things, removed areas from the natural system, caused some areas to flood while others are dried out, and, in general, stopped the natural flow of water through the Greater Everglades Ecosystem.

Finally in 1989, the U.S. Congress directed the U.S. Army Corps of Engineers to begin the restoration of flows through the Everglades "to the extent practicable" in Public Law 101-229, the Everglades National Park Protection and Expansion Act, which authorized the Modified Water Deliveries ("MWD") project. The February 1991 Environmental Impact Statement ("EIS") on the MWD project stated that the Everglades National Park Protection and Expansion Act authorized construction of the project based on "the environmental benefits to be derived by the Everglades ecosystem in general and by the park in the particular." EIS at 3. The 1992 Final EIS promised that the project would benefit approximately 100,000 acres of wetlands in NESR, 600,000 acres of wetlands in WCA-3, and 200,000 acres within the Shark River Slough Basin of the Park. FEIS at EIS-32. The expectation of Congress was that this project would be completed

1

by approximately 1997. Despite a Government Accountability Office ("GAO") Report and Congressional hearings on the delay of the MWD project, it is now 2013 and the Corps is still years away from total completion given the original scope of the project.

On a parallel track with the MWD project, the Corps agreed to modify C-111 South Dade components of the Central and South Florida project ("C&SF") in order to restore flows through Taylor Slough, which eventually enter Florida Bay. As with the MWD project, the C-111 modifications have been in the works for over two decades without being completed. The completion of both the MWD and C-111 projects, and an operational plan to implement them, are extremely important to the Miccosukee Tribe. This is primarily because they will permit increased water to move south through the historic flow path of the Everglades, thus relieving Tribal land in WCA 3A north of Tamiami Trail from unnatural inundation and ongoing, irreversible destruction.

While these two projects were being planned and implemented at a snail's pace, the Fish and Wildlife Service ("FWS") declared jeopardy on the Cape Sable seaside sparrow ("the Sparrow") in 1997 under the provisions of the Endangered Species Act ("ESA"). The draconian and discriminatory water management changes, which the Corps made at the behest of the FWS, further exacerbated the flooding of Tribal land. The Corps began with emergency deviations in December 1997, and followed these with the Interim Structural and Operational Plan ("ISOP") in 1999, and the Interim Operational Plan ("IOP") in 2002; each made the flooding of Tribal land progressively worse. As preposterous as it sounds, all of these operational plans moved the Everglades further away from the restoration and have not helped the "Sparrow."

In 2003, the Corps began planning operational rules for the day that the MWD and C-111 projects would be completed. This effort was dubbed the Combined Structural and Operational Plan ("CSOP"). Tribal representatives participated in more than 22 meetings of a CSOP advisory team formed by the Task Force under the mistaken assumption that all the interests actually supported the goal of finally operating these projects in a manner that would begin the restoration process. After four years of intensive work on the part of many, to include the Tribe's representatives, and a consensus agreement on the part of a large majority of participants, the Corps abandoned the CSOP effort. ENP, with the support of their environmental allies, refused to support the plan for clearly unjustifiable reasons, including that the proposed Alternative 5R would allegedly harm the western "Sparrow" subpopulation A. As discussed herein, this issue is both a red herring and contrary to Everglades restoration.

In reality, the CSOP hydrologic modeling had revealed the obvious: The implementation of the MWD project and more natural flows would make the "Sparrow" habitat south of the Miccosukee Reserved Area ("MRA"), which has been unnaturally dried out since 1997, much wetter. This revelation was in diametric opposition to the FWS demands to artificially dry this area out over the past 13 years. The dilemma that the Tribe had realized and expounded for years, was now front and center; water managers could either continue to 1) unnaturally dry out the western side of the Park or 2) restore the area ... not both.

During this same period, the FWS was responding to a lawsuit which required the Service to consider this area for designation as "critical habitat" under the provisions of the ESA. If this area was in fact designated "critical habitat," then it would have to be unnaturally dried out forever, and Everglades restoration would be permanently blocked. Based primarily on the Tribe's technical and scientific arguments, along with the Corps' modeling, the FWS rejected the establishment of this area as "critical habitat." The FWS was challenged in Federal Court, but, again, due to the Tribe's support in that case, the Judge upheld the FWS decision to not establish "critical habitat" and to permit Everglades restoration to move forward. The only question that remains now is when does the Corps start allowing more flows into this area, including through the S-12 gates under the contemplated Combined Operational Plan ("COP"), and eventually CERP, so that restoration can in fact commence both north and south of Tamiami Trail?

In 2010, after 13 years of discriminatory water management actions, purportedly for the "Sparrow," the Corps finally listened to two major points the Miccosukee Tribe had been making for years regarding these operations: 1) WCA 3A was being severely impacted by IOP and the previous "Sparrow" operations, as evidenced by the destruction that had been experienced, which is highlighted by the continuing loss of tree islands, the plummeting of the snail kite population from over 3,500 birds in 2000 to less than 700 in 2008, and the conversion of Everglades marsh habitat into a shallow lake, and 2) by far the most important, the "health and safety" of the Miccosukee Tribe was being threatened by operating WCA 3A at water levels well above its design specifications. This recognition by the Corps stemmed from the Tribe's Equal Protection lawsuit in which Tribal members and representatives, to include Chairman Colley Billie, gave testimony and resulted in the Corps' development of the Everglades Restoration Transition Plan ("ERTP"). As a result, the Corps issued a Final Environmental Impact Statement ("FEIS") in December of 2011, which proposed major changes to address the "health and safety" of the Tribe and the high water in WCA 3A. If the ERTP is finally implemented as proposed in the FEIS, the Tribe may finally be provided some relief from the damaging, discriminatory water management actions that have been going on for over 13 years.

In June 22, 2011, while the ERTP was in process, the Tribe provided NEPA scoping comments on the Combined Operational Plan ("COP"), which is the new acronym that replaced CSOP for the (CSOP operational plan that will be implemented once the construction of the MWD and C-111 projects is completed, which was once called CSOP. The COP will replace the ERTP when completed. If the Issues/Concerns that were provided to the Corps by the Tribe are adequately addressed, the COP has the potential of providing even more benefits for the Everglades and Tribe than the proposed ERTP promises to accomplish. However, since the COP has yet to be developed, and structures still need to be constructed, that remains to be seen.

In October 2011, with some CERP projects having been abandoned and others seriously delayed, the Corps and other announced yet another new planning effort to push forward certain central Everglades components of CERP. Yet another acronym was created and the Central Everglades Planning Project (CEPP) was announced with great fanfare. To date, the details of CEPP are

limited to power points, "fact" sheets, letters and a Federal Register Notice. The Federal Register Notice states that the goal of the CEPP effort is "to develop an integrated, comprehensive technical plan, including the first increment of projects, for delivering the right quantity, quality, timing and distribution of water needed to restore and reconnect the central Everglades ecosystem." It identifies the CERP components that are included as the following projects: Everglades Agricultural Агеа Storage Reservoirs: Water Conservation Decompartmentalization and Sheetflow Enhancement; Everglades National Park Seepage Management; and Everglades Rain Driven Operations. According to a Corps fact sheet, "The goal of the Central Everglades Planning Project is to deliver within two years a finalized plan, known as a Project Implementation Report, for a suite of restoration projects in the central Everglades to prepare for Congressional authorization as part of the Comprehensive Everglades Restoration Plan (CERP)." It is difficult to discern from the scanty information whether CEPP will be just another endless planning effort or projects will actually be built.

The statement in the Federal Register Notice that, "Since 2000 much progress has been made," is highly misleading. Nothing could be farther from the reality of missed deadlines and abandoned projects. The Tribe has been contending for almost a decade that projects were being seriously delayed, and that the "heart of the Everglades," including Tribal Everglades, was being left out of CERP. Even the Committee on Independent Scientific Review of everglades Progress (CISRERP) echoed the Tribe's concerns. In its 2006 Biennial Review, CISRERP found that important projects necessary to re-establish sheet flow in the Everglades are, "far behind the original schedule." It further recognized that, "anticipated restoration progress in the Water Conservation Areas and Everglades National Park appears to be lagging behind the production of natural system benefits in other parts of the Everglades." The 2008 Biennial Review warned that, "Ongoing delay to South Florida ecosystem restoration not only has postponed improvements to the hydrological condition but also has allowed ecological decline to continue." The Review concluded that, "It's too early to evaluate the response of the ecosystem to CERP Projects because none have been implemented." It is disingenuous based on reality for the Corps to attempt to fool the public into thinking that "much progress has been made" or that it is expediting projects that have been seriously delayed.

While the Tribe is pleased to see after all these years that there is finally a focus on creating a plan to move projects for the Central Everglades forward, it remains to be seen whether CEPP will be yet another new acronym for yet another endless planning effort or whether projects to restore the Central Everglades will actually be built. The Tribe, whose entire culture and way of life depends on a healthy Everglades ecosystem has long sought for its traditional homeland to be restored. Yet, the Tribe cannot help but have any optimism that it might have tempered by the many plans that it has worked on for so many years, only to see them cast aside when politics intervened. In the Tribe's experience, it remains to be seen whether projects necessary to restore the "heart of the Everglades" will ever be authorized and implemented. Moreover, depending on how the plan is designed, and implemented, the CEPP could either benefit or harm Tribal lands and interests in the Everglades, especially since the State failed to meet the December 31, 2006

deadline to meet water quality standards in the Everglades Protection Area. Thus, the following comments are provided in response to a Public Notice by the Corps requesting scoping comments and must be addressed in the CEPP NEPA process.

Miccosukee Tribe Issues/Concerns That Must Be Addressed in the NEPA Process Include:

- An EIS Is Required: The CEPP formulation and implementation will have "a significant impact on the human environment." Therefore, the document that is required to be prepared by the Corps under the National Environmental Policy Act ("NEPA") must be an Environmental Impact Statement ("EIS").
- All Applicable Law Must be Followed: While the Tribe is not opposed to the significantly delayed CERP process becoming more efficient, it is opposed to any streamlining that comes at the expense of compliance with all applicable laws. As always, the Tribe expects the Corps to comply with the National Environmental Policy Act ("NEPA"), the Endangered Species Act ("ESA"), the Federal Advisory Committee Act ("FACA"), the Clean Water Act, the U.S. Constitution, the Corps' Trust responsibility to the Tribe, and all other applicable laws.
- ERTP, Not IOP, Should Be the Base Condition: The Corps concluded in the Final Environmental Impact Statement (FEIS) on the Everglades Restoration Transition Plan ("ERTP") that, due to safety and endangered species concerns, that "IOP is no longer a viable option" for water management within WCA-3A and the South Dade Conveyance System." ERTP FEIS at xiii. The Corps argued when it stopped using the Test 7 operational plan as a base condition in the EIS process that it could no longer be used because it was contrary to the ESA. Similarly here, the Corps cannot rely on IOP as the base condition for CEPP in the NEPA process, because it is not viable. In addition, the ERTP should be replacing IOP in the very near future and prior to any NEPA document being produced.
- Ensure No Adverse Impacts to Miccosukee Tribe Culture & Cultural Resources: Corps' analysis and planning often do not adequately take into consideration the impacts of Corps project operations on the Miccosukee Tribe's Culture and Cultural Resources, before most projects/actions are authorized for implementation. The Corps must perform a comprehensive review of all potential adverse impacts of all proposed actions under the CEPP on the Miccosukee Tribe's Culture and Cultural Resources in the action area, which includes WCA-3 and the Park, and ensure that any adverse impacts are eliminated prior to implementation of the selected alternative. Certainly, the assurance of the "health and safety" of the Tribe must be paramount.
- Must Produce Benefits for Tribal Lands in WCA 3A: The CEPP process should incorporate a revised WCA-3A regulation schedule targeted at the restoration of the entire central Everglades that incorporates a multispecies management approach building upon what was achieved with the ERTP and hopefully will be achieved under COP. Any regulation scheduled developed in the CEPP process must provide restoration of the Tribal Everglades in

WCA-3A, as well as the Park. The Corps must be careful during the NEPA process not to succumb to unreasonable demands by the Park, or any other interests, to provide more water than the CEPP can reasonably deliver without sacrificing other areas of the Everglades, such as the Tribal Everglades in WCA-3A. The pursuit of the unnecessary, unreasonable, and impossible often prevents the achievable. The Tribal Everglades must benefit from CEPP.

 CEPP Must Decrease WCA 3A Flooding: WCA-3A water levels must become more natural as defined by the Natural Systems Model ("NSM") and the CERP documented -I foot below to +2.5 feet above ground envelope to protect the few remaining tree islands. According to the December 2011 FEIS on the ERTP, for WCA-3, the result of lowering Zone A and extensions of Zones E1 and D can be seen in the modeling for the southern areas of WCA 3, such as Indicator Region 124, Figure A-H-7 and Figure A-H-8. FEIS at 4-36. The FEIS explains that the stages show a significant reduction (by as much as 0.2 or 0.3 feet) from about the highest 5 percent to about the 50% of the time range, Id. The results of lowering the zones under the ERTP Alternative 9E1 can be seen in Figure A-H-10 for the southern areas of WCA 3A. The number of high weeks (392) under the current condition (IOP) was reduced to 252 weeks under Run 9E1. Id. According to the FEIS, this equated to a 36 per cent reduction in exceedance of the high water stage criterion with no increase of low water events. Id. The modeling also shows that the numbers of weeks of sustained high water above 2.5 ft. in Indicator Region 14 has been reduced from 412 weeks under IOP to 260 weeks under ERTP 9E1. See FEIS at B-1-99. The Corps concluded: "The alternative that best met the ERTP objectives of improving conditions within WCA 3A for the snail kite, wood stork and other wildlife species, while maintaining protection for the CSSS and meeting Congressionally-authorized C&SF Project purposes, became the ERTP." FEIS at 2-31, Alternative 9E1 is the recommended plan. FEIS at xiii. CEPP must reduce damaging high water levels in WCA 3A even more than the proposed ERTP and the anticipated COP. So-called "new science," which in many cases is old science that has been discarded, must not be misused as an excuse to drown the Tribal Everglades to provide more water to the Park downstream.

Health And Safety Must Be a Priority: The Corps' recent FEIS for the ERTP quotes a letter of Miccosukee Tribal Chairman Colley Billie which states: "For far too many years, as a direct result of discriminatory water management actions, hundreds of thousands of acres of Tribal everglades in Water Conservation Area 3A have been flooded and degraded ... It has threatened the health and safety of the Miccosukee community." FEIS at 4-89. In 2008, the Tribe filed an Equal Protection lawsuit, pending in the Eleventh Circuit Court of Appeals, that detailed the threats that these discriminatory water management actions posed to the Tribal Everglades in WCA-3A, and to the health and safety of the Miccosukee people. In July 2010, the USACE Water Resources Engineering Branch (EN-W) conducted a review of the original General Design Memorandum for WCA-3A. See ERTP FEIS at 1-19; see Memo of Sean Smith as Exhibit A. Based upon the results of this review, the Corps concluded that a rigorous evaluation of the Standard Project Flood conditions within WCA-3A should be conducted. Id. As a result of the Corps' Phase I analysis of high water events, the Corps discovered that "based on

current system conditions as simulated in the water budget spreadsheet, the current configuration of WCA-3A would result in an increase in the SPF stage for WCA-3A of between 1.3 and 1.4 feet compared to the WCA-3A design assumptions." Id. Through this analysis, the Corps also discovered the blindingly obvious: "that peak SPF stage is increased over the original design due to the reduction in outlet capacity from WCA-3A through the S-12s." Id. The Corps recognized that the "Discharge through the S-12 structures is essential for managing the WCA-3A SPF peak stage." FEIS at A-5-33. The FEIS concluded that: "Leaving IOP in place is not an acceptable option due to the snail kite habitat issues and L-29 levee high stage concerns." FEIS at G-1-10. In light of this safety analysis, the FEIS concluded that it is "prudent for the USACE to recommend the lowering of Zone A of the WCA-3A Regulation Schedule as a risk reduction measure." FEIS at 1-20. The FEIS further concluded that the 1960 WCA-3A 9.5 to 10.5 feet, NGVD Regulation Schedule is a "required component for the interim water management criteria for WCA-3A Zone A under ERTP, necessary to mitigate for the observed effects of the discharge limitations of the S-12 spillways." Id. In light of these findings, any CEPP water management actions that may impact water levels in WCA-3 must account for the specific flood stage of the L-29 levee system as detailed in the US Army Corps of Engineers 2011 General Design Memorandum for WCA-3A. (see Exhibit A attached). This is vital to protecting the Miccosukee community located downstream of the L-29 levee. Finally, any safety studies that have been, or are being, conducted on the L-31 levee and the Lake Okeechobee dike must also be taken into account. Health and safety of the Miccosukee Tribe, and the public, must be the top priority in the CEPP process.

- CEPP Must Incorporate Storage As a Priority: As with water quality treatment, storage must also be incorporated. The nutrient enriched flows that are discharged from Lake Okeechobee could easily overload the current stormwater treatment system, and impact the Everglades wetlands. Incorporating storage facilities must be a central component of the CEPP and should be scheduled for construction and implementation early in the sequencing process. It is a tragedy that the Everglades Agricultural Area ("EAA") Reservoir Phase 1, one of the first CERP projects, was abandoned after many months of construction and an expenditure of more than \$250 million dollars. If the EAA Reservoir Phase 1 had not been abandoned, both it and the Bolles and Cross Canal Projects, could have been completed by December 2009. Additionally, although the EPA Amended Determination stated that a Flow Equalization Basin ("FEB") built on this site could meet the Water Quality Based Effluent Limit in WCA-3 by 2013, no action has been taken to build an FEB on this site that was paid for by federal tax dollars. Constructing storage at the soonest must be a priority if CEPP is too succeed.
- Rehydrate Only With Clean Water to Protect Northern WCA-3A and WCA-3B: Flows into the dry areas of northern WCA-3A and through WCA-3B should be restored to the greatest extent practicable toward achieving historical flows and levels and only if the water is clean. Dirty water, i.e. water containing concentrations of phosphorus greater than 10 ppb should never be utilized for rehydration of unnaturally dried out areas. In general, CEPP should never

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permit rehydration with dirty water and should always strive for natural flows and levels to the greatest extent practicable.

• CEPP Must Incorporate Solutions to Stop Western Basins Pollution: Any project truly geared at delivering more water clean water to the "Central Everglades" must incorporate solutions for the western basins. Discharges through the S-140 and the S-190 water control structures continually deliver phosphorus laden waters onto Tribal lands and into WCA-3A. Recent data from the 2011 South Florida Environmental Report shows that the combined discharge from the S-140 and S-190 water control structures comprised nearly 30% of the total phosphorus load discharged to WCA-3A. The S140 water control structure discharged 9.2 metric tons of phosphorus with a FWMC of 55 ppb directly onto Tribal lands and into WCA-3A. This was the single largest structure discharge into WCA-3A in 2010. The S-190 water control structure discharged 7.6 metric tons of phosphorus with a FWMC of 73 ppb directly into the L-28 Interceptor canal, which terminates on Tribal lands in WCA 3A (2011 SFER Appendix 3A-5). The SFWMD inflow station at the terminal end of the L-28 Interceptor canal had a discharge geometric mean phosphorus concentration of 65.2 ppb in WY 2010 (SFER 2011; Appendix 3-4).

The combined impacts and phosphorus load from these discharges has had a devastating effect on Tribal lands and WCA-3A. The Central Everglades Planning Process provides an invaluable opportunity to develop and implement solutions that will cooperatively benefit Tribal lands and the water conservation area. These solutions were outlined in the Comprehensive Everglades Restoration Plan (CERP) and in the Big Cypress - L-28 Interceptor Modifications Project description which calls for canal modifications and water quality treatment for these basins:

Big Cypress - L-28 Interceptor Modifications Project (www.evergladesplan.org)

Modification of levees and canals, water control structures, pumps, and stormwater treatment areas (with a total storage capacity of 7,600 acre-feet) will re-establish sheetflow from the West Feeder Canal across the Big Cypress Reservation and into the Big Cypress National Preserve, maintain flood protection on Seminole Tribal lands, and ensure that inflows to the North and West Feeder Canals meet applicable water quality standards. Upstream flows entering the West and North Feeder Canals will be routed through two stormwater treatment areas to be located at the upstream ends of the canals. Sheetflow will be re-established south of the West Feeder Canal consistent with the Seminole Tribe's Conceptual Water Conservation System master plan.

The Central Everglades Planning Process is the time to initiate the long overdue planning process for the CERP Big Cypress - L-28 Interceptor Modifications and provide a solution for the devastating discharges from the L-28 Interceptor Canal and the S-140 water control structure.

 No More Dirty Water, No Rehydration with Dirty Water, & No Use of WCAs As De Facto STAs: Unlike a lake or a stream in which pollutant discharges undergo relatively quick and complete mixing, the Everglades is being eaten away by P pollution like a cancer. Cancer starts at a point and eventually spreads throughout the body unless stopped. Like a cancer, phosphorus pollution eats away from the points it enters the Glades, and continuously spreads further and further into unimpacted areas. It will eventually destroy the vast majority of what's left, if not the entire Everglades, unless it is stopped.

If damage occurred until the cause of the damage was stopped, and was then reversed in approximately the same time it took to cause that damage, this damage would be considered reparable, or reversible. This is not what occurs in the Everglades. Recreating tree islands and extracting high concentration of phosphorus from the soil may never be achieved by nature except in geological timeframes; and extirpated species will never be replaced. Even if humans could reverse the damage in a shorter time, which at present they cannot, it would certainly be cost prohibitive, and require many, many years to complete. Whether these restorations can be achieved is unknown, and, if they could, the time to achieve them is centuries, millennia, or longer. Even in the best case scenario, this damage is, for all intents and purposes, irreparable. It only makes sense that stopping this irreparable damage is the prudent first step to restoration, and, in the minds of many, including the Miccosukee Tribe, the mandatory first step.

It should be clear to all that restoration of the Everglades has not begun, as the Everglades continues today to be irreversibly destroyed. Restoration can only begin once the irreversible damage is stopped, and that day is, at best, far in the future.

The water quality issue was supposed to have been resolved by December 31, 2006 when the State, now under an Order of the Court, was supposed to have achieved inflows into the Everglades that ensured the Water Quality Standard was being met. The State's meeting this deadline in a timely fashion was a base assumption of the CERP Restudy, and the success of CERP, in accordance with the projected schedule, depended on it. However, this has yet to be achieved, and under the current best case scenario, may not be achieved until 2020. There is a possibility under the EPA Amended Determination that the Water Quality Based Effluent Limitation ("WQBEL") for WCA could be met by 2013 if a Flow Equalization Basin ("FEB") on the Talisman land was constructed, but no such reservoir is even being planned let alone being constructed. Moreover, as all who work on Everglades restoration know, the best case scenario is rarely, if ever, realized.

In addition, CISRERP has invited an analysis of "trade-offs between water quality and quantity," which opens the door wide for those who would destroy one part of the Everglades for the benefit of another. At the heart of this is the utilization of vast areas of the Everglades (both WCAs and Tribal Land) as *de facto* STAs. To permit the State to utilize Tribal Land as STAs in order to achieve 10 ppb P in the Park is diametrically opposed to actually restoring the Everglades, contrary to the Consent Decree and the Clean Water Act, and anathema to the Miccosukee Tribe. The Tribe will not permit Tribal land to be utilized as an STA.

Therefore, the Tribe does and will not support a CEPP that 1) increases the amount of dirty water brought into the Everglades Protection Area, or 2) restores flows to the

Everglades Protection Area with dirty water, until the restoration water meets the 10 ppb P criterion mandated by the Clean Water Act. Even more, Tribal land will not be utilized as an STA. The 10 ppb P criterion must be a major performance measure in CEPP and water quality must be thoroughly analyzed and evaluated in the CEPP process.

- . No More Dirty Water Water Quality Must Be Met: The Federal Register defines the primary objective of the CEPP as follows: "The next step for the implementation of CERP is to redirect water that is currently discharged to the east and west coast estuaries from Lake Okeechobee and restore flow to the South..." The CEPP process cannot attempt to restore more water into the central Everglades from the north, i.e. from the Everglades Agricultural Area ("EAA") and Lake Okeechobee until the State meets water quality standards in the water being delivered to the Everglades Protection Area. The State of Florida failed to meet the December 31, 2006 deadline, as recognized by Judge Gold, to ensure that waters discharged to the Everglades Protection Area meets water quality standards, including a numeric criterion of 10 ppb Phosphorus ("P"). Thus, waters discharged from Lake Okeechobee are laden with pollution. The most recent data for the 2011 South Florida Environmental Report shows that the open water Lake total phosphorus concentrations were 118 ppb for WY2010 and had a five year average of 172 ppb (2011 SFER; Table 10-12). To accomplish the stated goal of redirecting Lake Okeechobee flows south, while maintaining the water quality standards as a constraint, as presented and discussed at the Water Resources Advisory Commission (WRAC) on Thursday, January 6, 2012, treatment must incorporated. Without the appropriate treatment, redirected flows from Lake Okeechobee will greatly increase the nutrient loads to the water conservation areas, causing further degradation of Tribal lands within the Everglades ecosystem." Once flow at natural rates, levels, and quality is "practicable," then, and only then, should more water be brought into the Everglades; given the current rate of progress, this is many years into the future, if ever.
- No Trade-Offs Permitted: One hears discussions at times about trade-offs" in Everglades restoration. Although not clearly nor precisely framed, CISRERP has invited an analysis of "trade-offs between water quality and quantity," which opens the door wide for those who would destroy one part of the Everglades for the benefit of another. At the heart of this is the utilization of vast areas of the Everglades (both WCAs and Tribal Land) as de facto STAs in the restoration process. The Tribe is concerned that under the guise of "new science" some will attempt to use the CEPP process to seek a plan that forces large volumes of water through some areas, like WCA-3A, for the possible benefit of other areas, like the Park to the south. These are not new arguments, but old ones previously rejected and now being recirculated. There was much discussion during the Restudy process about how too much water could devastate the last vast expanse of sawgrass left in existence in WCA-3A. It was decided that all areas of the Everglades were to be restored. The Tribe is deeply concerned by the so-called "new science" that some are using to support sending greater volumes of water through the Everglades than was envisioned by CERP. It should be noted that much of the modeling on this new science that was done did not take into account any constraints for water supply, flood control, or the fact that half of the

Everglades is gone. The Tribe will resist any effort to drown the Tribal Everglades for the alleged benefit of the Park downstream. As discussed in the section on endangered species, Tribal lands and the endangered snail kite have suffered from the high water effects of discriminatory water management. The Miccosukee Tribe never endorsed "trade-offs", which is essentially "Animal Farm" equality for the Everglades, or the use of Tribal land as a de facto STA. Using the Tribe's Everglades in WCA-3A as a de facto STA to clean the water before it gets to the Park is also specifically prohibited by the Consent Decree (Judge Moreno's Court). CEPP must endorse as a guiding principle that no area of the Everglades will be destroyed/sacrificed for the benefit of another are of the Everglades by planned CERP projects, or for that matter, any proposed project.

- CEPP Must Not Delay Already Delayed MWD Project Components: According to the Congressional Research Service ("CRS") Report to Congress dated March 17, 2005, "Mod Waters was originally estimated to be completed by 1997, yet some now argue it is unclear when or even whether the project will be completed." Another study on the delay of the Modified Water Deliveries Project ("MWD Project") conducted by the Inspector General of the Department of the Interior dated March 2006, discusses the cost of delay: "The Corps estimates that damage to tree islands resulting from the current high water levels could be as much as 246 acres per year and the cost to restore the islands ranges from \$12.3 million to \$123 million per year." The CRS Report further stated that: "Section 601(b)(2)(D)(iv) of WRDA 2000 provides that Mod Water must be completed before appropriations can be made to construct other restoration projects in the east Everglades." Moreover, the 2006 Biennial Review by CISRERP warned that: "Since the Mod Waters Project is an assumed precursor for the WCA-3A Decomprimentalization and Sheetflow Enhancement part 1 (Decomp) project, further delays in the project's completion may ultimately delay funding appropriations for Decomp." The committee recommended that: "Mod Waters should be completed without further delay." In its 2008 Biennial Review CISRERP warned, "If this relatively modest restoration project cannot proceed and provide some restoration benefits, the outlook for CERP is dismal." The CEPP must not be used as an excuse to bypass Congressional intent or to delay the construction of vital MWD Project components, which have already been seriously delayed. The Tribe is concerned that some will attempt to delay important aspects of this project by incorporating them into the CEPP, which may never be authorized. The Tribe will be opposed to any attempt to do so. Completion and implementation of the MWD Project must be a pre-condition to the CEPP and a "without project condition" under NEPA.
- <u>Decompartmentalization of WCA-3</u>: The Tribe agrees with the CISRERP that, if MWD does not get completed, the outlook for CERP is dismal and, unfortunately, the MWD Project is still far from completion. The CERP Decompartmentalization Project is also well behind the scheduled January 2010 completion date for construction of certain components contained in Section 10 of the Yellow Book. The Tribe cannot help but wonder if this new planning effort, with a new acronym, was devised to obfuscate this important fact. However, in the event that the

CEPP planning effort actually moves forward, plans for the Decompartmentalization of WCA-3 should incorporate more than the hydrologic modification features proposed for north of I-75 by the DECOMP PDT Team. When incorporating the Decompartmentalization of WCA-3 into the CEPP all of the canals in the L-28 system should be considered for removal in addition to the entire Maimi canal and L-67 canal system to truly provide restoration of the "Central Everglades." As the Decompartmentalization of WCA 3 progresses, careful and consistent consultation with the Tribe should take place to ensure that the cultural meeting places of the Miccosukee people and Tribal camps are not adversely impacted.

- Analyze Expanding the Capacity of S-333: All water that the Park desires for rehydration of Northeast Shark River Slough cannot flow through WCA-3B without causing significant irreversible destruction. As much water as is naturally possible should be funneled through WCA-3B, and, if more is available to satisfy the desires of the Park, then it should be provided via S-333, at least until the CERP eastern rehydration projects are completed. In order to provide this additional water, the CEPP should look at increasing the capacity of S-333. During the development of "Sparrow" deviations in the late 1990s, it was decided to increase the S-333 capacity from 1,350 cfs to 2,000 cfs, as documented in the 2002 IOP Final EIS, but this was never accomplished. The tentatively selected plan for COP also included the same increase in capacity for the S-333 structure, but COP was abandoned. It is only prudent to finally analyze increasing the size of S-333 in order to ensure the Park can receive the higher volumes of water at a faster rate that it claims it needs.
- 8.5 Square Mile Area Must Be Protected: After years of debate, a project to protect the people of the 8.5 Square Mile Area ("8.5 SMA") from project induced flooding was authorized by Congress and constructed by the Corps of Engineers. There still are many associated with the Park that would like to see the remaining homes removed; under the mandate of Congress, this is not going to happen. The Corps must ensure the people of the 8.5 SMA are afforded the protection they are authorized, and must not let another 8.5 SMA debate paralyze the restoration process and stop the CEPP from being implemented.
- <u>CEPP Transitional Plan Is Essential</u>: There remain several components of both the MWD and C-111 projects that must be formulated, designed, and constructed. These components will not be all completed at the same time; it will take years for all to be completed. Similarly, the components of the different projects that will constitute the CEPP to deliver what the Corps refers to as "incremental" restoration will also come on line at different times. Thus, the CEPP should contain a transitional plan that implements beneficial operational changes once each new component of the Pre-CERP and CERP projects is completed.
- No Operation of the S-356 Pump Station: The Miccosukee Tribe will not support the operation of the S-356 pump station as a component of CEPP. There are three primary reasons:
 water quality issues exist which have not been adequately addressed (Note: Among the potential/existing water quality issues, testing and analysis to date of S-356 pumped water have

found zero dissolved oxygen, along with a very strong odor of sulfur; changes in the concentration, load, and distribution of P flows into the Park resulting from the use of S-356 have not been analyzed rigorously vis-à-vis the Consent Decree, and there is clear potential for an increase in the number of Consent Decree violations), 2) the net result of the use of S-356 is pumping water in a circle, i.e. S-356 pumps into L-29 Canal, L-29 water flows into NE Shark River Slough in the Park, then seepage of this water enters the L-31N, and, then again, S-356 into L-29 Canal, which is clearly not restoration, and 3) most important to the Tribe, the pumping into the L-29 Canal from S-356 reduces the flow through S-333 into the L-29, and, thus, results in higher water in WCA 3A and Tribal land. This latter consequence of S-356 utilization results in adverse impacts to Tribal lands in WCA 3A and the endangered snail kite and its critical habitat. The S-356 pump station has no redeeming value at this point, and probably never will, and it certainly should be eliminated from consideration in the formulation of CEPP.

- Address Seepage Control As A Critical Requirement: Seepage out of Northeast Shark River Slough in ENP remains a huge impediment to restoration. Simply and directly stated, the restoration of ENP and the entire Everglades cannot be achieved until the seepage between S-335 and G-211 is adequately managed. CEPP must recognize this debilitating seepage limitation and be formulated to appropriately account for it.
- 1-Mile Eastern Bridge Should Be Plugged: The Tribe continues to strenuously object to the construction of the 1-Mile Eastern "Bridge to Nowhere" and contends that it is a waste of taxpayer money that will continue to delay the MWD project. Moreover, given the facts that additional flows into Northeast Shark River Slough are severely limited by seepage into the L-31N Canal, and that the 1-Mile Eastern Bridge that is now being constructed will concentrate current and additional flows on the eastern side of the Park, it is clear that the bridge should not be utilized until the seepage challenge is met. The Corps even predicts that the flow across Tamiami Trail will increase by over 15% once this bridge is complete without even changing operations, i.e. the seepage challenge will be exacerbated just by merely constructing the bridge. The proposed COP and CEPP NEPA processes must analyze this potential flooding threat, which could adversely impact the Miccosukee Resort, and other Miami-Dade County properties. The openings under the bridge should either 1) remain blocked by leaving the existing Tamiami Trail in place, or 2) be blocked by fill, sheet pile, or some other technique, until the seepage challenge is appropriately met, thus forcing more of the flow to the west in Shark River Slough where seepage is much less of an issue.
- Reduce/Eliminate the "Big Red Arrow": The "Big Red Arrow," i.e. the arrow depicted on water budget schematics depicting the huge amounts of water forced south out of the L-31N Canal into the area of Homestead and vicinity since the enlargement of the L-31N in the early 1980s, must be reduced to the maximum extent practicable. If not, the people of South Miami-Dade will be continue to be flooded beyond the level of protection authorized by Congress, and

the CEPP clearly has the potential to exacerbate this already bad situation. Therefore, CEPP should have as a primary goal the elimination of the "Big Red Arrow."

- Maintain the G-3273 Trigger Gage: Uncontrolled, high volumes of seepage into the L-31N Canal can cause and has exacerbated flooding in the built portion of Miami-Dade County, which includes Miccosukee property. Seepage also causes the "Big Red Arrow," which specifically leads to increased flooding in southern Miami-Dade. Historically, this seepage has been somewhat managed by discontinuing the controllable inflow of water into Northeast Shark River Slough when the G-3273 gage rises 6.8 feet NGVD. Until seepage, and, thus, unacceptable flooding, are adequately addressed, there is little reason to believe that G-3272 trigger well is not going to remain a critical part of the water management system under CEPP.
- Clear Downstream of the Culverts to Increase Flows: In 2009, the Park commissioned a professor from the University of Miami to evaluate the effectiveness of culvert swales in increasing flows from the WCAs to ENP. The culvert-swale approach is one method for effectively clearing the accumulation of sediment, vegetation (to include invasive exotics), detritus, and, literally, garbage downstream of the Tamiami Trail culverts that is significantly reducing the flows from north to south, i.e. rather than actually remove the blockage, swales enable the water to move around it. In January 2010, Dr. David A. Chin, PE, published his report. Dr. Chin's analysis indicates that the Miccosukee long-held position is correct, i.e. clearing downstream of the culverts will significantly increase flows (Note: It also reconfirms at least 2 prior studies done by the Corps). Key points from the report follow:
 - Even the most modest swale considered, i.e., 500' by 30', at a constant L-29 stage of only 6.0 feet NAVD, will likely increase flows by 60% at one culvert set and 250% at the other ... the most robust swale considered, i.e., 1500' by 30', will provide for a 200% and 560% increase at the same culvert sets, respectively.
 - Even a worst case scenario for both culvert sets during sensitivity analysis provided for a 48% and 200% increase in flows with the 1500' by 30' swale option, while an equally plausible, but more favorable, marsh resistance increased flows by 520% and 830% for the same swale option.
 - Adding another culvert set at the swale locations provided only a little improvement in increased flows.
 - Replacing the culverts by bridges at the swale provided improvements, but not nearly as great as the increased flows predicted for simply building the swale.
 - When a bridge is simulated to replace the existing culvert set: "... it should be noted that, for a given spreader-canal configuration, water deliveries are independent of the bridge span as long as stage differences across the bridge opening are relatively small [which is the normal condition]."

These new and independent scientific/engineering findings provide great hope for major, quick improvements in the condition of the Everglades at a very reasonable cost. Dr. Chin's work convinced the Superintendant of ENP to conduct an actual Pilot Swale Project to evaluate Dr. Chin's findings in the field; although this pilot project was supposed to be implemented by October of 2010, it appears that the work now been cancelled. Given that the evidence and possibilities are so compelling, and the deteriorating state of the Everglades so dire, the Corps should move forward with full scale swale projects immediately, and analyze the increased flow capabilities of such swales as a component of the CEPP EIS.

- Clear Downstream of the S-12s & Implement Other Measures Needed to Increase Flows: The same hydraulic principles employed by Dr. Chin to the culvert swales also apply to the S-12s. Clearing downstream of these structures provides more opportunities for further increasing flows through the Everglades. Especially increasing flows from WCA 3A, which is flooded much of the time, to an area in the Park that has been unnaturally dried out over many years. In preparation for the development of the ERTP, the Corps performed an analysis of current water levels in WCA 3A vis-à-vis the 1960 and 1972 design specifications and expectations, and reported the results in MEMORANDUM FOR SAJ LEVEE SAFETY OFFICER (DUBA), Subject: EN-W Position Statement on WCA-3A Regulation Schedule Modifications, 9 September 2010. Major findings are [emphasis added]:
 - O Actual water levels are much higher than those for which WCA 3A was designed—
 "The analysis illustrated that under the current system conditions, as represented in the spreadsheet, the peak SPF S-12 headwater stage was computes 13.76 ft, NGVD and the peak SPV WCA-3A three gage average stage was computed as 15.20 ft, NGVD. The comparison of peak stages between the 1960 GDM WCA-3A design and the 2010 WCA-3A volumetric spreadsheet predictions indicate that the predicted SPF stage is higher than the WCA-3A design stages established in the original GDM and used to set the asbuilt crest elevation of L-29: 1.36 feet higher at the headwater of the S12 structures; 1.3 feet higher at the three station average for WCA-3A."
 - S-12 flows are crucial achieving lower water levels "Sensitivity analysis performed utilizing the 2010 WCA-3A volumetric spreadsheet tool illustrated that the peak SPF stage is most sensitive to the amount of outflows being discharged from WCA-3A, with the primary outlet being the S-12s ..."
 - Must lower top of regulation schedule to the design envelope of 9.5 10.5 feet to mitigate for the S-12 discharge limitations "... EN-W has concluded that the lowering of Zone A of the current WCA-3A Regulation Schedule to the 9.5-10.5 feet NGVD regulation schedule line from the 1960 GDM will provide an interim step to mitigate for the observed effects of the S-12s discharge limitations."
 - Much more than reducing the top of the regulation schedule is needed to lower water in WCA 3A "The inclusion of the lowering of Zone A of the current WCA-3A Regulation Schedule within the proposed alternatives of the ongoing ERTP NEPA effort

is a minimum requirement to demonstrate compatibility with the required interim water management criteria for WCA-3A. Additional water management operating criteria to further reduce the frequency and duration of high stages within WCA-3A should also be considered within the context of other ERTP Project considerations."

- Decisive and prescribed measures are needed now to decrease the risk to "human health and safety" "The ERTP Project's water management operating criteria should include the establishment of operational constraints at the S-12 structures based upon safety considerations for WCA-3A features and pertinent downstream areas, including the identification of infrastructure modifications to be implemented on a temporary basis to allow the reduction of risk to human health and safety. The stability analysis of the S-12s is predicated on a maximum design headwater stage of elevation 12.4 feet NGVD with the differential head across the structure limited to 5.5 feet; also, the as-built crest elevation of L-29 and crown elevation of Tamiami Trail (US-41) in the S-12A to S-12D reach has been established to protect against the risk of overtopping from an adjacent flood stage of elevation 12.4 feet NGVD. The exceedances of these design conditions should be considered an immediate increase in risk to the human, health and safety afforded by the project feature and would require decisive and prescribed measures to reduce the WCA-3A stage."
- ERTP alone will not sufficiently reduce the risk to human health and safety ... more is needed! "Outside of the ERTP project, additional NEPA assessment would be required to implement infrastructure modifications on a temporary basis to allow the reduction of risk to human health and safety, or to implement other permanent structural alternative which may result from the future phase 2 analyses. Considering the limitations on discharge through the S-12 structures, downstream conveyance improvements at the S-12 structures (potentially including removal of portions of the old Tamiami Trail) or additional outlets are required to mitigate for increased SPF stages within WCA-3A."

In the Corps Draft ERTP EIS published on March 4, 2011, the Corps reiterated the importance of clearing the downstream blockages of the S-12 structures, as well as other measures to increase the flow out of WCA 3A.

5.0 Conclusions (DEIS at A-5-41) [emphasis added]:

- The predicted SPF stage is higher than the WCA-3A design stages established in the original GDM and used to set the as-built crest elevation for L-29.
- Outlet capacity of the S-12s has either reduced over time OR¹ was never as large as assumed for the original design routings.

¹ The Tribe's takes exception to the word "OR" which should be "AND" as it is clear from the evidence, including e-mails from Corps Staff, that: 1) the S-12 design flows were never achieved and 2) the capacity of the S-12s has decreased over time based on analysis of the rating curves over time.

- The peak SPF stage is not sensitive to modifying the top (i.e. Zone A) of the WCA-3A Regulation Schedule. The peak SPF stage is most sensitive to the amount of outflows being discharged from WCA-3A, with the primary outlet being the S-12s.
- Considering the limitations on discharge through the S-12 structures, additional outlets are required to mitigate for increased SPF stages.
- The most effective additional measure investigated to alleviate the problem involves further degradation of the L-28 to increase outflows; however, the downstream effects of this action cannot be adequately addressed with the spreadsheet model routing and would require a more robust hydraulic analysis.
- Implementation of the Modified Water Deliveries Conveyance and Seepage Control Features would also provide additional outlet capacity.

7.0 Recommendations for Future High Water Control

- Remove key sections of the Old Tamiami Trail to reduce current impediments to flow out of WCA-3A.
- Investigate the possibility of changing the operating criteria at S-343A, S-343B, and S-344.
- Perform S-12 downstream conveyance improvements, such as vegetation cleanout.

ERTP has proposed major steps to decrease water levels in WCA 3A. If the Recommended Plan for the ERTP is implemented it should lessen the now recognized and documented risk to human "health and safety," to include a major threat to the members of the Miccosukee Tribe. But clearly, the Corps' own analyses specifies that more must be done to increase flows out of WCA-3A. Additional measures that need to be addressed in the CEPP EIS include 1) clearing downstream of the S-12 structures, 2) removing as much as possible of Old Tamiami Trail, and 3) further degrading of the L-28 levee. These, and other measures that might help, need to be planned and analyzed in the CEPP EIS and implemented at the soonest.

• Impact on Endangered Species Must be Assessed – Multi-Species Approach Is Essential: The CEPP EIS must analyze the impacts of operation of these CERP projects on all endangered and threatened species in the action area, which includes Lake Okeechobee, the northern estuaries, all of the WCAs and the Park. Such an analysis would include the impact of operations on the Tribal lands in WCA-3A, and on the endangered snail kite and its critical habitat there. Both the snail kite, and its critical habitat in WCA-3A, have suffered an alarming decline under the past thirteen years of discriminatory water management. These draconian actions, purportedly for the Cape Sable seaside sparrow ("Sparrow)., moved the Everglades, including Tribal lands, further away from restoration. As a result of these water management actions, which include IOP, the Everglade snail kite that lives on Tribal lands has suffered an

alarming decline reported at more than 50%, which is actually even greater.² See ERTP FEIS at 3-26. This decline is a direct result of more than thirteen years of S-12 gate closures, which degraded thousands of acres of snail kite critical habitat on Tribal lands in WCA-3A.

The Miccosukee Tribe, whose members have called the Everglades home since time immemorial, objected to these single-species water management actions on grounds that they would cause the damage the Tribe has witnessed. The ERTP FEIS confirms that damage to both WCA-3A and the snail kite has taken place. The FEIS states, "the snail kite population has progressively and dramatically decreased since 1999 ... the snail kite population essentially halved between 2000 and 2002 from approximately 3,400 birds to 1,700 birds; and halved again from approximately 1,500 to 1,600 birds in 2006, to approximately 685 birds in 2008." FEIS at 3-26. The estimated 2009 population size of 662 birds indicates that there is no sign of recovery (Cattau et al. 2009)." Id. A review of Table 3-1 in the FEIS shows that number of successful nests, and young fledged, have declined dramatically since the Corps began implementing the S-12 gate closings in 1998. Id. and Table 3-3. "WCA-3A has been previously identified as the most critical component of snail kite habitat in Florida" and the lack of reproduction in this area in recent years is of principal concern. Id. "A population viability unalysis conducted in 2006 predicts very high extinction probabilities within the next 50 years (Martin 2007). Given the 2009 population estimate (i.e. 662 birds) the extinction risk may be even greater than the previous estimate (Cattau et al. 2009)." 3-26 to 3-27. It is clear that the Tribe's concerns about the snail kite have been proven correct. The FEIS also recognizes that the alarming decline of the vegetation on snail kite critical habitat in WCA-3A. "However, high water levels and extended hydroperiods have resulted in vegetation shifts within WCA-3A, degrading snail kite critical habitat." FEIS at 3-28. A multi-species approach that builds on the ERTP process and scientific information is essential. The ERTP was the first process to actually take a real multi-species approach to water management. Before this, as described above, it has typically been single-species management. The ERTP model for multi-species management must be a guiding principle of the CEPP.

• Restoration West of Shark River Slough Must Begin: As discussed earlier, "critical habitat" for the "Sparrow" was not designated by FWS for western Shark River Slough, because this area is currently being unnaturally dried out for subpopulation A of the "Sparrow" when under restoration it will be made much wetter. Declaring critical habitat would have effectively blocked the future restoration of the Everglades. Based largely on the written defense of the FWS's Final Rule by the Tribe, and concerns that the proposed designation would not only stop Everglades Restoration, but cause the continued destruction of Tribal Land, a Federal Judge ruled in 2011 that the FWS was correct not to designate this area as "critical habitat." In addition

While some government documents have reported a 50% decline, the drop from approximately 3,400 snail kites in 2000 to 662 in 2009 actually represents a startling population decline of 81%. This is considerably more than the 50% stated.

to stopping Everglades restoration, the Judge unequivocally recognized the damage being done to Tribal land by "Sparrow" deviations:

"Under the grip of the law of unintended consequences, however, these corrective plans [i.e. deviations for the "Sparrow"] produced untoward results. Some argue that the greater retention of water for longer periods of time in WCA 3A, intended for Sparrow conservation, precipitated abnormally high water levels in WCA 3A. The higher water levels in WCA 3A are thought to have imposed adverse effects on other endangered species and on members of the Miccosukee Tribe of Indians of Florida ("Tribe")—who reside on more than 100,000 acres of WCA 3A land—by flooding culturally significant sites." Collyer Order at p. 13.

Settled: CERP is formulated to restore the Everglades and the CEPP process purports to begin the incremental restoration of the Central Everglades. The best science in the form of modeling and field studies show that restoration of the Everglades will result in the western portion of Shark River Slough being wetter. In contrast, the last 13 years of draconian water management actions allegedly for the "Sparrow" have made this area dryer and moved it away from restoration, while not helping the "Sparrow." The designation of "critical habitat" for this area would have required it to be dried out in perpetuity. The FWS has officially decided, and a Federal Judge upheld the FWS decision, that at some point the CSSS-A area will be restored and be wetter.

Unsettled: The only question that remains at this time is when does the Corps start allowing more flows into the area of western Shark River Slough so that restoration can in fact commence both for the areas north and south of Tamiami Trail? Thus, the Tribe, for the sake of its land and culture in particular, and Everglades restoration in general, implores the Corps to begin the restoration of western Shark River Slough via both the COP and CEPP.

• <u>Decisive Action Required</u>: From 2003 to 2007, the Miccosukee Tribe participated in the 4-year CSOP effort to attempt to achieve essentially the same outcomes that a new acronym, COP, is now supposed to achieve. At the end of the day, because of the unjustified non-support of a few, the consensus of many was rejected, and, to the detriment of the Tribe, nothing was implemented. This endless restoration planning without concrete results must not be repeated under either the COP or CEPP. The Colonel must make a final decision for the CEPP based on the best information available in spite of the misguided demands that some may have. No more "kicking the can down the road." Another dead end excursion is not an option for the dying Everglades. Bold, decisive action that results in actual restoration is essential for success.

Exhibit A MIT CEPP Scoping Comments January 13, 2012 1 of 5 O9 September 2010

CESAJ-EN-W

MEMORANDUM FOR SAJ LEVEE SAFETY OFFICER (DUBA)

SUBJECT: EN-W Position Statement on WCA-3A Regulation Schedule Modifications

The USACE Jacksonville District Water Resources Engineering Branch (EN-W) has conducted a thorough review of the Central and South Florida Project (C&SF) Part 1 Supplement 33: General Design Memoranda (GDM) for Water Conservation Area 3 (June 1960) and the C&SF Part 1 Supplement 49: Agricultural and Conservation Areas General and Detail Design Memorandum (August 1972). The 1960 GDM documents the WCA-3A design criteria and design assumptions, including the 9.5-10.5 feet NGVD regulation schedule for WCA-3A that managed water levels in WCA-3A prior to the start of the Experimental Program of Water Deliveries to Everglades National Park in 1983. Under the Experimental Program, the WCA-3A Regulation Schedule zones and operational rules were initially modified as part of the two-year test of the Rainfall Plan starting in 1985. The modified WCA-3A Regulation Schedule and Rainfall Plan remained in effect through the end of the Experimental Program in 2000. As an outcome of the deliberations during development of the Interim Structural and Operational Plan (ISOP 2000-2002) and the Interim Operational Plan (IOP 2002-present), the WCA-3A regulation schedule was further changed with the modification of Zone D and the establishment of Zone El.

Based on the review of WCA-3A design documents and in conjunction with the hypothesis that the S-12s are not capable of achieving the original design discharge of 32,000 cfs, EN-W has concluded that a detailed engineering assessment of the effects of the potential S-12s discharge limitations and the WCA-3A Regulation Schedule modifications on the frequency and duration of high water events was warranted. The engineering assessment should include a rigorous evaluation of Standard Project Flood (SPF) conditions within WCA-3A as these conditions have not been evaluated by the USACE Jacksonville District since the original 1960 and 1972 design documents.

EN-W has proposed a two-phase analysis approach for WCA-3A high water events including: phase 1(ongoing) - identification and assessment of interim water management criteria for WCA-3A, including operational changes proposed as part of the ongoing

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CESAJ-EN-W

SUBJECT: EN-W Position Statement on WCA-3A Regulation Schedule Modifications

Everglades Restoration Transition Plan (ERTP) NEPA efforts; and phase 2(future) - a WCA-3A flood routing hydraulic analysis, incorporating current USACE risk analysis requirements focusing on potential human health and safety concerns resulting from WCA-3A stages, with identification of proposed water management operating criteria and potential infrastructure modifications to address identified concerns. The phase 1 effort was limited to hydrology and hydraulics assessment, while the phase 2 analysis will include additional engineering analysis conducted by hydrology and hydraulics, geotechnical, and structural design disciplines.

Findings of Phase 1 - To determine the ERTP interim water management criteria for WCA-3A, EN-W has completed a preliminary assessment based on the methodology identified in the 1960 GDM design document. The original design headwater of the S-12 structures is 12.4 feet and the peak three station average for WCA-3A under the SPF event was 13.90 ft, NGVD (C&SF Part I, Supplement 33). Since the current configuration of WCA-3A inflow and outflow structures differs from the 1960 GDM design document, a simple volumetric spreadsheet was developed of WCA-3A to determine the peak Standard Project Flood (SPF) stage within WCA-3A and at the S-12 structures based on current system conditions. Multiple inflow and outflow variables were identified and quantified to refine the calculations of the peak flows and stages for the SPF evaluation. The latest USGS rating curve for each of the S-12 structures was utilized in the analysis to incorporate the most current stage discharge measurements to more accurately incorporate present flow conditions. The analysis illustrated that under the current system conditions, as represented in the spreadsheet, the peak SPF S-12 headwater stage was computed as 13.76 ft, NGVD and the peak SPF WCA-3A three gage average stage was computed as 15.20 ft, NGVD. The comparison of peak stages between the 1960 GDM WCA-3A design and the 2010 WCA-3A volumetric spreadsheet predictions indicate that the predicted SPF stage is higher than the WCA-3A design stages established in the original GDM and used to set the as-built crest elevation of L-29: 1.36 feet higher at the headwater of the S12 structures; 1.3 feet higher at the three station average for WCA-3A. Sensitivity analysis

Exhibit A MIT CEPP Scoping Comments January 13, 2012

CESAJ-EN-W SUBJECT: EN-W Position Statement on WCA-3A Regulation Schedule Modifications

performed utilizing the 2010 WCA3A volumetric spreadsheet tool illustrated that the peak SPF stage is most sensitive to the amount of outflows being discharged from WCA-3A, with the primary outlet being the S-12's, and that the peak SPF stage is less sensitive to the configuration of the WCA-3A Regulation Schedule Zone A.

The schedule and scope for completion of the ongoing ERTP NEPA analysis precludes consideration of potential structural alternatives which would be proposed and evaluated in Phase 2. For immediate implementation through ERTP, prior to completion of the Phase 2, EN-W has concluded that the lowering of Zone A of the current WCA-3A Regulation Schedule to the 9.5-10.5 feet NGVD regulation schedule line from the 1960 GDM will provide an interim step to mitigate for the observed effects of the S-12s discharge limitations. Preliminary SFWMM modeling indicated that the following reductions in WCA-3A three station average high water frequency (as a percentage of the SFWMM 36-year period-of record, 1965-2000) may be reasonably expected from the lowering of Zone A: no significant change for stages above 11.75 feet NGVD (corresponds to S-12 headwater stage of 10.92 feet NGVD, based on historical regression); 1% reduction in stages exceeding 11.5 feet NGVD; 2-3% reduction in stages exceeding 11.0 feet NGVD; and 6-7% reduction in stages exceeding 10.5 feet NGVD.

The inclusion of the lowering of Zone A of the current WCA-3A Regulation Schedule within the proposed alternatives of the ongoing ERTP NEPA effort is a minimum requirement to demonstrate compatibility with the required interim water management criteria for WCA-3A. Additional water management operating criteria to further reduce the frequency and duration of high stages within WCA-3A should also be considered within the context of other ERTP Project considerations.

The ERTP Project's water management operating criteria should include the establishment of operational constraints at the S-12 structures based upon safety considerations for WCA-3A features and pertinent downstream areas, including the identification of infrastructure modifications to be implemented on a temporary

Exhibit A MIT CEPP Scoping Comments January 13, 2012

CESAJ-EN-W

SUBJECT: EN-W Position Statement on WCA-3A Regulation Schedule Modifications

basis to allow the reduction of risk to human health and safety. The stability analysis of the S-12's is predicated on a maximum design headwater stage of elevation 12.4 feet NGVD with the differential head across the structure limited to 5.5 feet; also, the as-built crest elevation of L-29 and crown elevation of Tamiami Trail (US-41) in the S-12A to S-12D reach has been established to protect against the risk of overtopping from an adjacent flood stage of elevation 12.4 feet NGVD. The exceedance of these design conditions should be considered an immediate increase in risk to the human, health and safety afforded by the project features and would require decisive and prescribed measures to reduce the WCA-3A stage. In addition, application of the FDOT road base impact criteria to this reach of Tamiami Trail (estimated crown elevation of 14.95 feet) would result in a not to exceed regulated water stage of approximately elevation 11.5 feet NGVD adjacent to the roadbed (corresponds to S-12 headwater stage of 12.45 feet NGVD, based on historical While this water stage could be temporarily regression). exceeded and does not present the immediate risk of the SPF stage violation, nevertheless, it should be considered adverse with operational measures applied to reduce its duration.

Outside of the ERTP project, additional NEPA assessment would be required to implement infrastructure modifications on a temporary basis to allow the reduction of risk to human health and safety, or to implement other permanent structural alternatives which may result from the future phase 2 analyses. Considering the limitations on discharge through the S-12 structures, downstream conveyance improvements at the S-12 structures (potentially including removal of portions of the old Tamiami Trail) or additional outlets are required to mitigate for increased SPF stages within WCA-3A. The most effective additional measure investigated under phase 1 to alleviate the problem involves further degradation of the L-28 to increase outflows, although the potential for downstream effects, including impacts to the Tamiami Trail roadway and hydroperiod/nesting condition effects on Cape Sable Seaside Sparrow Sub-population A, would require further investigations. Implementation of the Modified Water Deliveries Conveyance and

Exhibit A MIT CEPP Scoping Comments January 13, 2012 5 of 5

CESAJ-EN-W

SUBJECT: EN-W Position Statement on WCA-3A Regulation Schedule Modifications

Seepage Control Features and Tamiami Trail Improvements would also provide additional outlet capacity.

If you have any questions or require additional information, please contact me directly at extension 2105.

SEAN L. SMETH, P.E.

chief, Water Resources Engineering Branch



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

JACKSONVILLE, FLORIDA 32232-00

Planning Division Environmental Branch

MAR 0 6 2012



Mr. Willard Steele Seminole Tribe of Florida Tribal Historic Preservation Officer 32090 Josie Billie Highway, PMP 1004 Clewiston, Florida 33440

Dear Mr. Steele:

The U.S. Army Corps of Engineers (Corps), Jacksonville District, along with the South Florida Water Management District (SFWMD), is studying the environmental effects of the proposed Central Everglades Planning Project (CEPP). The goal of the Central Everglades Planning Project is to deliver within two years a finalized plan, known as a Project Implementation Report (PIR), for a suite of restoration projects in the central Everglades. This PIR is in preparation to seek Congressional authorization for the CEPP as part of the Comprehensive Everglades Restoration Plan (CERP). The project will incorporate updated science and technical information gained over the last decade to identify projects on lands already in public ownership to be selected as the next generation of CERP components.

The CEPP is incorporating some previously defined projects that have already addressed cultural resource concerns. Once the final array of alternatives are identified consultation with your office, site file reviews, cultural resource surveys, and determinations of significance and eligibility for listing of historic properties to the National Register of Historic Places, will continue until the Section 106 process of the NHPA, 36 CFR Part 800, Protection of Historic Properties, and the National Environmental Policy Act of 1969, as amended, are complete.

Based on goals specified by CEPP, the following areas will be consulted on at this time: Water Conservation Areas 3A and 3B, and Everglades Agricultural Area A-1 and A-2 (previously known as Component A).

Water Conservation Areas 3A and 3B – Florida Master Site File research indicates the presence of previously recorded sites, most of which were identified via remote sensing. These sites have not been verified with either surface or subsurface investigations.

-2-



Similarly, the Everglades Agricultural Area A-1 and A-2 – Florida Master Site File research indicates that this area has not undergone systematic cultural resource investigations. Therefore, the Corps proposes to conduct an archaeological survey and assessment of specific areas within both WCA3 and EAA A-1 and A-2 in accordance with the enclosed field testing plan enclosed.

The Corps seeks your comments on this proposed plan of action and looks forward to working with you. Any questions or concerns that you may have at this time can be addressed by Ms. Cindy Thomas by contacting her at (904) 232-1180 or via email: Cynthia, G. Thomas@usace.army.mil.

Sincerely,

Eric Summa.

Chief, Environmental Branch

Enclosure

Copy Furnished:

Mr. Paul Backhouse, Seminole Tribe of Florida, Deputy Tribal Historic Preservation Officer, 32090 Josie Billie Highway, PMP 1004, Clewiston, Florida 33440

Ms. Anne Mullins, Seminole Tribe of Florida, Compliance Review Supervisor, 32090 Josie Billie Highway, PMP 1004, Clewiston, Florida 33440

Mr. Elliot York, Archaeological Data Analyst, 32090 Josie Billie Highway, PMP 1004, Clewiston, Florida 33440



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

Planning Division Environmental Branch MAR 0 6 2012

Mr. Fred Dayhoff Section 106 and NAGPRA Consultant Miccosukee Tribe of Indians of Florida PO Box 440021 Tamiami Station Miami. Florida 33144

Dear Mr. Dayhoff:

The U.S. Army Corps of Engineers (Corps), Jacksonville District, along with the South Florida Water Management District (SFWMD), is studying the environmental effects of the proposed Central Everglades Planning Project (CEPP). The goal of the Central Everglades Planning Project is to deliver within two years a finalized plan, known as a Project Implementation Report (PIR), for a suite of restoration projects in the central Everglades. This PIR is in preparation to seek Congressional authorization for the CEPP as part of the Comprehensive Everglades Restoration Plan (CERP). The project will incorporate updated science and technical information gained over the last decade to identify projects on lands already in public ownership to be selected as the next generation of CERP components.

The CEPP is incorporating some previously defined projects that have already addressed cultural resource concerns. Once the final array of alternatives are identified consultation with your office, site file reviews, cultural resource surveys, and determinations of significance and eligibility for listing of historic properties to the National Register of Historic Places, will continue until the Section 106 process of the NHPA, 36 CFR Part 800, Protection of Historic Properties, and the National Environmental Policy Act of 1969, as amended, are complete.

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Water Conservation Areas 3A and 3B – Florida Master Site File research indicates the presence of previously recorded sites, most of which were identified via remote sensing. These sites have not been verified with either surface or subsurface investigations.

Similarly, the Everglades Agricultural Area A-1 and A-2 – Florida Master Site File research indicates that this area has not undergone systematic cultural resource investigations. Therefore, the Corps proposes to conduct an archaeological survey and assessment of specific areas within both WCA3 and EAA A-1 and A-2 in accordance with the enclosed field testing plan enclosed.

The Corps seeks your comments on this proposed plan of action and looks forward to working with you. Any questions or concerns that you may have at this time can be addressed by Ms. Cindy Thomas by contacting her at (904) 232-1180 or via email: Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Eric Sulpma.

Chief, Environmental Branch

Enclosure

Copy Furnished:

Mr. Rory Feeney, Fish and Wildlife Director; PO Box 440021 Tamiami Station, Miami, Florida 33144

SEMINOLE TRIBE OF FLORIDA TRIBAL HISTORIC PRESERVATION OFFICE

TRIBAL HISTORIC PRESERVATION OFFICE

SEMINGLE TRIBE OF FLORIDA AH-TAH-THI-KI MUSEUM

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TREASUREE
MICHAEL D. TIGER

July 10, 2012

Dan Hughes U.S. Army Corps of Engineers Jacksonville District Office Attn.: CESAJ-PD-EP 701 San Marco Boulevard Jacksonville, Florida 32207

RE: Phase I Historical & Archaeological Survey of the Miami Canal within WCA-3A, Levee 5 Spreader Channel, Levee 4-5 Spreader Channel Pump Station, Broward & Dade Counties, FL, Panamerican Consultants, Inc. (June 2012)

Mr. Hughes:

Thank you for the opportunity to review the above reference report provided to our office on June 25, 2012. I noted during my review of the report that the results of the survey indicate that there are several potentially NR eligible archaeological sites identified (including 8BD4836, 8BD4837, and 8BD4839) that will be potentially adversely impacted by the proposed action. We respectfully would like to be consulted with regard to any further action that might affect these sites, including any further archaeological research or inundation of the known resources. Based on the conclusions of the report The Seminole Tribe of Florida respectfully recommends monitoring by an archaeologist that meets the Secretary of the Interiors Standards during any ground disturbance in high probability areas for archaeological materials in the event that construction inadvertently impacts a previously unknown archaeological site.

Please contact our office regarding further consultation on this project.

Sincerely,

Paul Backhouse, Ph.D., RPA

Acting Tribal Historic Preservation Office, Seminole Tribe of Florida

CC: Natalie Garret, Tribal Liaison
Eric P. Summa, Chief Environmental Branch



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

Planning Division Environmental Branch

Mr. Fred Dayhoff NAGPRA Representative, Tribal Consultant Miccosukee Tribe of Indians of Florida P.O. Box 440021 Miami, Florida 33144

Dear Mr. Dayhoff:

As part of the Central Everglades Planning Project (CEPP), the U.S. Army Corps of Engineers (Corps) in partnership with the South Florida Water Management District (District), are planning to conduct archaeological investigations of tree islands and levees and/or canals within Water Conservation Area (WCA) 3A and 3B. The purpose of this testing is to determine what archaeological resources are in the area that may be effected by the project and to determine National Register of Historic Places (NRHP) eligibility of those archaeological resources. Results of this testing will guide and inform the CEPP team and consultation concerning cultural resources will continue as the project develops.

Because of the unique nature of the environment a research design was developed, through consultation, specifically for WCA 3A and 3B, which includes both tree islands and historic canals/levees. Provided below is an overview of how archaeological investigations within WCA 3A and 3B will be carried out. We seek your concurrence on this methodology, which was originally presented in full in our letter on 06 March 2012.

- Through consultation with the Miccosukee Tribe of Indians of Florida and Seminole
 Tribe of Florida, 45.89 miles of historic levees/canals and 33 tree islands were selected
 for investigations.
- Levee/Canals and any associated features will be recorded and assessed for NRHP eligibility.
- 3. Tree islands will undergo a surface inspection before shovel testing.

- 4. Shovel tests will start on the outside edge of the tree island and work inward toward the center. If artifacts are discovered, progress towards the center will stop. To better understand the history of the site, two 50-centimeter shovel tests will be dug in the highest portion of the site. This method will enable the Corps and the District to answer specific questions about the historic use of the area, while leaving most of the site undisturbed.
- An archaeologist who specializes in identifying human remains will be in the field at all times. All material recovered from shovel tests will be scanned for the presence of human remains.
- 6. In the event that human remains are located during fieldwork, all work on the tree island will cease and any material collected from that tree island will be reburied. Human remains or funerary items will not be photographed.
- 7. All artifacts collected for analysis will be returned to the tree island they were recovered from by January 31, 2013. If human remains are inadvertently discovered during lab analysis, such material and any associated funerary items will be returned to the location in which they were recovered as soon as possible.

At this time, we seek your concurrence on the methodology for testing tree islands and historic canals/levees within WCA 3A and 3B. If you concur, please sign and date on the line provided below and return this letter to Ms. Cynthia Thomas. It is understood that all agreed upon methodologies are subject to review by the Tribal Chairman and that approval may be withdrawn with cause at any time during the project, at which point a new agreement, if any, will be written. Any questions or concerns that you may have can also be addressed by Ms. Thomas by contacting her at (904) 232-1180 or via email: Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Eric P. Summa
Chief, Environmental Branch

CONCURRENCE:

Miccosukee Tribe of Indians of Florida, NACPRA Refresentative and Consultant

DATE:

SEMINOLE TRIBE OF FLORIDA

TELEPHONE (954) 967-3900

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6300 STIRLING ROAD HOLLYWOOD, FLORIDA 33024



Tribal Officers:

JAMES E. BILLIE Chairman

TONY SANCHEZ, JR. Vice Chairman

PRISCILLA D. SAYEN Secretary

MICHAEL D. TIGER Treasurer

VIA ELECTRONIC & REGULAR U.S. MAIL

September 26, 2012

Colonel Alan M. Dodd U.S. Army Corps of Engineers Jacksonville District Post Office Box 4970 Jacksonville, Florida 32331-0019

Re: Everglades Restoration Transition Plan

Dear Colonel Dodd:

I am pleased to inform you that on September 14, 2012, the Seminole Tribe of Florida's Tribal Council formally ratified both the Programmatic Agreement and Human Remains Policy for the Environmental Restoration Transition Plan ("ERTP"). Further, the Tribal Council has elected to participate in the Programmatic Agreement as a Signatory Party. Please find attached a copy of the Programmatic Agreement signed by Chairman James E. Billie. We appreciate the United States Army Corps of Engineers' ("Corps") efforts in cooperatively developing both documents with the Seminole Tribe. Burial resources hold significant cultural and religious importance to the Seminole Tribe. Therefore, we are especially pleased with the development of the Human Remains Policy for ERTP and the Corps' commitment to protect burial resources as trust resources.

This commitment was acknowledged by Colonel Pantano during our May 15, 2012, formal consultation. During that meeting, Colonel Pantano suggested and committed to the development of a Human Remains Policy for ERTP. Colonel Pantano also suggested and committed to developing, in consultation with the Seminole Tribe, a global human remains

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Colonel Alan M. Dodd U.S. Army Corps of Engineers September 10, 2012 Page 2

policy that would govern all Corps activities throughout Florida. This commitment by Colonel Pantano is reflected in the ERTP Programmatic Agreement. As Colonel Pantano suggested, the global policy would build off the ERTP Human Remains Policy and the 2008 Comprehensive Everglades Restoration Plan Human Remains Policy.

We look forward to the opportunity to collaborate with the Corps in fulfilling the Corps' commitment to the Seminole Tribe to develop a global human remains policy. Both the Corps and the Seminole Tribe will benefit from an agreed upon, streamlined process for the treatment of burial resources. Such a policy will ensure outcomes that timely further project goals in a culturally sensitive manner. The Corps staff has committed to developing a global policy by June 2013, which we believe is a reasonable timeframe.

We are currently conducting formal consultation with the Corps in connection with the Central Everglades Planning Project ("CEPP"). We appreciate the Corps involving the Seminole Tribe and considering cultural resource issues early on in the process. Considering the early stages of CEPP, we believe that CEPP presents an excellent opportunity for the timely development of the global human remains policy. It is important that both the Seminole Tribe and the Corps continue to act on the commitments made to ensure a cooperative approach to the treatment of burial resources and the progress made thus far continues. Therefore, we respectfully request, in connection with CEPP, the Corps initiate formal consultation with the Seminole Tribe to develop the global human remains policy. Thank you again for your time and consideration.

Jim Shore, General Counsel Seminole Tribe of Florida

CC:

Cynthia Thomas – U.S. Army Corps of Engineers
Matt Morrison – U.S. Army Corps of Engineers
Kim Taplin – U.S. Army Corps of Engineers
Daniel Hughes – U.S. Army Corps of Engineers
John Pax – U.S. Army Corps of Engineers
Matt Donaldson – U.S. Army Corps of Engineers
Matt Donaldson – U.S. Army Corps of Engineers
Natalie S. Garrett – U.S. Army Corps of Engineers
Danny Tommie – Seminole Tribe of Florida
Paul N. Backhouse – Seminole Tribe of Florida
Anne Mullins – Seminole Tribe of Florida
Craig Tepper – Seminole Tribe of Florida
Patricia Power – Bose Public Affairs Group
Stephen Walker – Lewis, Longman & Walker, P.A.
James Charles – Lewis, Longman & Walker, P.A.



DEPARTMENT OF THE ARMY IACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

OCT 1 5 2012

Planning and Policy Division Environmental Branch

Mr. Jim Shore Seminole Tribe of Florida General Council 6300 Stirling Road Hollywood, Florida 33024

Dear Mr. Shore:

On behalf of the U.S. Army Corps of Engineers (Corps), Jacksonville District, I would like to thank the Seminole Tribe of Florida for collaborating with the Corps on the development and ratification of the Everglades Restoration Transition Plan (ERTP) Programmatic Agreement and Human Remains Policy, and for the continued participation in ongoing formal consultation for the Central Everglades Planning Project (CEPP).

In your letter dated September 26, 2012, your office requested formal consultation concerning the development of a broader human remains protocol in connection with the ongoing consultation for CEPP. As you know, CEPP is an accelerated planning project, which requires a great deal of consultation and coordination to insure that all interested parties' concerns are considered. Currently, CEPP is covered under the Comprehensive Everglades Restoration Plan (CERP) Human Remains Policy that was signed in 2008. Due to the importance placed on human remains and burial resources and our Trust responsibilities, the Corps does not view it as appropriate for the human remains protocol covering all Jacksonville District civil works projects within Florida to be developed in connection with CEPP (which focuses on water and related resources in the south Florida region). A broader human remains policy covering all of the Corps of Engineers' civil works missions within the Jacksonville District's area of responsibility in Florida should be developed separately and independently of any project.

We would like to extend an invitation for you or a designated member(s) of your staff to discuss the path forward toward achieving our mutual goal of developing the human remains protocol, Mr. Daniel Hughes has been designated as the Jacksonville District staff archaeologist for the development of this document and will be initiating contact with you (or your designee) by November 16, 2012.

-2-

Please contact Mr. Hughes at (904) 232-3028 or via email:

Daniel B. Hughes@usace.army.mil, or the Jacksonville District's Tribal Liaison, Ms. Natalie Garrett at (561) 472-8878 or via email: Natalie S. Garrett@usace.army.mil with any concerns or questions you may have.

Sincerely,

Alan M. Dodd Colonel, U.S. Army District Commander

Copy Furnished:

Mr. James Charles, Lewis, Longman & Walker, P.A., 515 North Flagler Drive, Suite 1500 West Palm Beach, Florida 33401

Mr. Stephen Walker, Lewis, Longman & Walker, P.A., 515 North Flagler Drive, Suite 1500, West Palm Beach, Florida 33401

Ms. Patricia Power, Bose Public Affairs Group, 1120 20th Street, N.W., Washington, DC 20036

Mr. Danny Tommie, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Mr. Craig Tepper, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Mr. Paul N. Backhouse, Seminole Tribe of Florida, 30290 Josie Billie Hwy, PMB 1004, Clewiston, Florida 33440

Ms. Anne Mullins, Seminole Tribe of Florida, 30290 Josie Billie Hwy, PMB 1004, Clewiston, Florida 3340

Mr. Matthew Morrison, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, Florida 33406

Ms. Cynthia Thomas, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

Ms. Kimberley Taplin, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

Mr. Daniel Hughes, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville. Florida 32207

Mr. John Pax, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

Mr. Matt Donaldson, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

Ms. Natalie S. Garrett, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

SEMINOLE TRIBE OF FLORIDA

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> WEBSITE: http://www.semtribe.com



Tribal Officers: JAMES E. BILLIE Chairson

TONY SANCHEZ, JR.
Vice Chairman

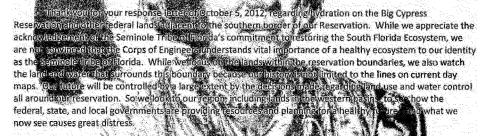
PRISCILLA D. SAYEN
Secretary

MICHAEL D. TIGER

November 7, 2012

Colonel Alan M. Dodd Jacksonville District Commander United States Army Corps of Engineers 701 San Marco Blyd Jacksonville Florida 32207,8175

Dear Colone Dodd



As you note in your letter, the Seminole Tribe has been actively engaged in the South Firston accosystem Restoration effort for nearly 20 years. We have supported this effort technically and point sells of these years. Where specifically, we are constructing in full partnership with the Gorps, an extension after control system on the Big Gypress Reservation. This project is important to us and to our resion and active cleate the Corps' work and federal funding. But focusing solely on the land addivater within our iscus your legal boundaries is short sighted. And this has been our position for nearly two decades. We have used over and over again throughfull the planning efforts, including the Restudy which is the passage. REP- to full of the western basins in the centrality erglades system in the monitoring, modeling data gathering. Positive, tranning, and project implementation. So picese applicate our deep disappointment to be sold first wetter basins that impact the Central laverglades Planning Project (CEPP) are not included in the scope of CEPP because the monitoring, data gathering, and modeling have still not been done in the scope of CEPP because the monitoring, data gathering, and modeling have still not been done in the scope of CEPP planning process in 18 months, but we remain very concerned by the long-standing inattention to this region.

Apart from the fact that we availted partner in Everglades Restoration by all accounts, have been effectively ignored in our repeated requests for monitoring, modeling, and planning in this region, we note that

"BUT I HAVE PROMISES TO KEEP & MILES TO GO BEFORE I SLEEP"



SEMINOLE TRIBE OF FLORIDA

the federal government has an obligation through its trust responsibilities to restore the northwest corner of WCA 3A, where the Seminole Tribe of Florida retains hunting and fishing rights, at a minimum. Beyond CEPP, we would like to discuss further how the Corps and its State partner intend to address the Central Everglades north and west of the redline in the current CEPP models.

As to your specific suggestions for addressing our water supply concerns, we welcome your offers. Regarding your suggestion to exercise adaptive management of Basin 1 of the critical project, we look forward to working with your engineering and wetlands regulatory staff on crafting operational changes to the outlets and siphons in order to deliver more water to the native areas south of the West Feeder Canal in the Big Cypress Seminole Indian Reservation. We assume that such work will be eligible for funding under the Operations & Maintenance provisions of the project's Project Cooperation Agreement.

Regarding the S-190 water control structure temporary deviation, we are encouraged by the option to work effectively within the existing regulation schedule to increase water storage in the West and North Feeder Canals, which will allow more water to replenish groundwater of the reservation. We would like to schedule meetings as soon as possible with the Corps and the South Florida Water Management District (District) to discuss the details and timing of the temporary deviation. I note here that we are also concerned about the structural integrity of the S-190 water control structure and urge the Corps and the District to carefully review the soundness of the structure and take all actions necessary to make it secure.

And thank you for the information on the Tribal Partnership Program as authorized by Section 203. We will take a careful review of this program and make a decision about whether or not to apply at a later date.

Managing water resources in South Florida is a steep challenge. The only way to meet this challenge is to work together to plan a future that balances competing needs fairly, which requires a more comprehensive view of the system. For as long as the monitoring and modeling in the western basins is not addressed, the South Florida Ecosystem restoration plan is incomplete.

We look forward to continue to work with you to remedy this situation and to address the pressing needs of the Tribe to correct the hydrology surrounding our Big Cypress Reservation. I have directed my staff to arrange another meeting with the Corps through Ms. Garrett.

Thank you for your attention to this critical resource issues for the Seminole Tribe.

.....

James E. Billie

Chairman of the Tribal Council

Jeb/Pd

Jim Shore, General Counsel, Seminole Tribe of Florida

Craig D. Tepper, Director, Environmental Resource Management Department, Seminole Tribe of Florida FILE

SEMINOLE TRIBE OF FLORIDA TRIBAL HISTORIC PRESERVATION OFFICE

TRIBAL HISTORIC PRESERVATION OFFICE

SEMINOLE TRIBE OF FLORIDA AH-TAH-THI-KI MUSEUM

30290 JOSIE BILLIE HWY PMB 1004 CLEWISTON, FL 33440

PHONE: (863) 983-8549 FAX: (863) 902-1117



TRIBAL OFFICERS

CHAIRMAN JAMES E. BILLIE

VICE CHAIRMAN TONY SANGHEZ, JR.

SECRETARY PRISCILLA D. SAYEN

IREASURER MICHAEL D. TIGER

March 19, 2013

Erica Summa
Chief, Environmental Branch
U.S. Army Corps of Engineers
Jacksonville District Office
Attn.: CESAJ-PD-EP
701 San Marco Boulevard
Jacksonville, Florida 32207

RE: Comprehensive Everglades Project Plan (CEPP)-Development of Adaptive Management Plan (AMP) and Memorandum of Agreement (MOA)

Mr. Summa:

I wish to thank you and the Jacksonville District, USACE for meeting with our staff on March 8, 2013 to discuss the next steps for the Central Everglades Project Plan (CEPP). We are encouraged that the Jacksonville District, USACE is committed to developing an Adaptive Management Plan (AMP) that would address STOF concerns by incorporating key provisions of the Everglades Restoration Transition Plan (ERTP) to address cultural resources and human remains including the avoidance of unnatural inundation. Further, this AMP would be formalized by a legally binding Section 106 Compliance Document in the form of a Memorandum of Agreement (MOA).

Based on our meeting and the commitments made, we believe development of an AMP is an appropriate measure to address unexpected and unwanted impacts to burial resources including unnatural inundation. Similar to the Human Remains Policy developed for ERTP, the AMP would be drafted to address the limited knowledge of the resources within the Area of Potential Effect ensuring culturally sensitive treatment of burial resources; a "Plan B" as it was characterized during our meeting. In order to move forward on this initiative, we respectfully request another meeting with Cindy Thomas, Susan Kaynor, and you to formalize the parameters and timeframes for the AMP. Please provide us some potential dates that you, Cindy and Susan would be available.

I would note that Tribal Historic Preservation Office (THPO) staff were somewhat alarmed by statements by USACE technical staff as to the potential effect of CEPP and ERTP operations. As we understand it ERTP appears to have the potential to cause effects that are contrary to those previously communicated

during previous meetings by key USACE staff. During previous ERTP consultations we were lead to believe that ERTP operations would lower watertables throughout the area of potential effect. During our March 8th meeting we were informed that the watertable within Shark River Slough would actually be elevated. This area is well known to contain high frequencies of cultural resources and the lack of explanation for the inconsistency in operation delivery is alarming. The potential for different kinds of impacts from project to project to the same resources highlights the need for a uniform treatment plan for burial resources. Regardless of the project design, purpose or funding, the one constant that remains unwavering is the fact that unnatural inundations is an unacceptable impact that must be avoided. This was acknowledged by Colonel Grosskruger in the 2008 CERP Human Remains Policy and was further strengthen by Colonel Pantano in the ERTP Human Remains Policy. The differences between ERTP and CEPP also highlight the need to consult with the Seminole Tribe on all the projects as a whole versus project by project. In order to ensure project goals and culturally sensitive treatment of burials is achieved, a more global view of the projects (how they work together) and associated cultural resources is needed so as to avoid misunderstandings such as what has occurred. We therefore respectfully request that great care is taken in the future to accurately explain the potential effects of a particular project on places that might have cultural significance for the Seminole Tribe of Florida. We look forward to working with you to develop the above documents.

Regards,

Paul N, Backhouse, Ph.D., Tribal Historic Preservation Officer

CC: Cynthia Thomas, Archaeologist, USACE
Susan Kaynor, Ecosystem Branch, USACE
Anne Mullins, Deputy THPO, Seminole Tribe of Florida
Bradley Mueller, Compliance Supervisor, Seminole Tribe of Florida
James E. Charles, Attorney/Shareholder, Lewis, Longman & Walker, P.A.



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

APPR 0 1 2013

Planning Division Environmental Branch

Mr. Paul Backhouse Tribal Historic Preservation Officer Seminole Tribe of Florida Ah Tah Thi Ki Museum 34725 West Boundary Road Clewiston, Florida 33440

Dear Mr. Backhouse:

The U.S. Army Corps of Engineers (Corps), Jacksonville District in partnership with the South Florida Water Management District is conducting a feasibility study for the Central Everglades Planning Project (DHR Project File No. 2012-01115). As part of that study, a cultural resource survey was conducted within Water Conservation Area 3 resulting in the draft report titled, Central Everglades Planning Project Cultural Resources Survey of Water Conservation Areas 3A and 3B, Broward and Miami-Dade Counties, Florida. The draft report contains recommendations on determinations of effects, however the Corps has yet to make a final determination and reserves the right to do so upon submission of the final report. As per your request the draft report has been provided electronically for review.

Please provide your comments within 30 calendar days of receipt of this letter. If there are any questions, contact Ms. Cynthia Thomas at 904-232-1180 or e-mail Cynthia.G. Thomas@usace.army.mil. An electronic copy of this letter has been provided to the following members of your staff: Anne Mullins, Alison Swing, Brad Mueller and Elliott York.

Sincerely

Eric P. Summa

Chief, Environmental Branch



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

ATTENTION OF

Planning Division Environmental Branch APR 0 1 2013

Mr. Fred Dayhoff NAGPRA Representative, Consultant to Miccosukee Tribe Box 68 Old Loop Road Ochopee, Florida 34141

Dear Mr. Dayhoff:

The U.S. Army Corps of Engineers (Corps), Jacksonville District in partnership with the South Florida Water Management District is conducting a feasibility study for the Central Everglades Planning Project (DHR Project File No. 2012-01115). As part of that study, a cultural resource survey was conducted within Water Conservation Area 3 resulting in the draft report titled, Central Everglades Planning Project Cultural Resources Survey of Water Conservation Areas 3A and 3B, Broward and Miami-Dade Counties, Florida. The draft report contains recommendations on determinations of effects, however the Corps has yet to make a final determination and reserves the right to do so upon submission of the final report.

Please provide your comments within 30 calendar days of receipt of this letter. If there are any questions, contact Ms. Cynthia Thomas at 904-232-1180 or e-mail Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Eric P. Summa

Chief, Environmental Branch

SEMINOLE TRIBE OF FLORIDA TRIBAL HISTORIC PRESERVATION OFFICE

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PRESERVATION OFFICE

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TREASURER
MICHAEL D. TIGER

May 23, 2013

Cynthia Thomas, Archaeologist
Central Everglades Planning Project
U.S. Army Corps of Engineers - Jacksonville District
701 San Marco Blvd.
PD-C Floor 4W
Jacksonville, Florida 32207
Office: (904) 232-1180

Office: (904) 232-1180 Blackberry: (904) 445-7693

RE: Review Comments for the Central Everglades Planning Project Cultural Resources Survey of Water Conservation Areas 3A and 3B Report.

Ms. Thomas:

Thank you for consulting with the Seminole Tribe of Florida (STOF) and for the opportunity to comment on the above referenced report. After carefully reviewing the report the STOF THPO has several initial concerns which we would like to bring to your attention.

The previous research section of the report does not appear to sufficiently present or synthesize the existing investigative literature for the project area. The overall sample universe and investigated sample size is not stated and our estimation based on the presented data suggests that less than a 3% sample of the high probability tree island locations was investigated during this project.

There appears to have been no attempt to utilize Seminole Tribal members as informants. The lack of Seminole input overlooks a potentially valuable source for information concerning the history of the

Everglades region. Likewise, the role of the Seminole people in the recent history of the Everglades seems to be missing from the Historic Context section of the report. The potential for historic Seminole sites is also almost entirely missing from the methodological development and therefore largely missing from the reported results (with the exception of one site with a Seminole component).

The Metal Detector Survey section of the Methods chapter of the report states that a limited, judgmental metal detector survey was performed but that "hits" or "targets" were not excavated in order to ensure that any potential Seminole/Miccosukee human burials would remain undisturbed. While we understand and applaud the motive to not disturb human burials, the failure to explore the nature of metal detector hits seriously compromises the value of the information that can be collected from a site. With respect to Shovel Testing and all other field methods employed it goes without saying that the preferred time of the year to conduct field investigations is the dry season when a greater number of tree islands would be accessible. The limitations placed on the fieldwork by either the water levels or the density of the vegetation serve to further reduce the overall tree island sampling rate within the APE.

Finally, with regard to one of the research questions addressed in the report and referred to as the "predictive measure for site presence", the THPO notes that the report expresses concern over the small sampling size with only ten sites examined in the field and only eight of those examined in detail (found in the Interpretations and Research Results section). The limited sample size is problematic and we agree with the conclusion that too little information is available to make an accurate determination as to the distribution or eligibility of tree island sites outside of those directly tested as part of this investigation.

There is much to be applauded in the report and the work and effort put into the fieldwork is apparent. We hope that you view these comments in the constructive manner in which they are intended. Should you have any further questions or concerns do not hesitate to contact our office.

Respectfully,

Bradley M. Mueller

Compliance Review Section Supervisor

Bradley M. Mueller

CC: Paul N, Backhouse, Ph.D., Tribal Historic Preservation Officer & Director of Museum Anne Mullins, Deputy Tribal Historic Preservation Officer

James E. Charles, Attorney/Shareholder, Lewis, Longman & Walker, P.A.



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

1 9 JUN 2013

REPLY TO ATTENTION OF

Planning and Policy Division Environmental Branch

Paul Backhouse, Ph.D, RPA
Museum Director and Tribal Historic Preservation Officer
30290 Josie Billie Hwy, PMB 1004
Clewiston, FL 33440

Dear Dr. Backhouse,

Thank you for the invitation to meet with you and your staff members on May 15. I found the discussion to be helpful, enlightening (as it was my first time on the Seminole reservation) as well as very productive. I hope to continue the dialogue well into the future.

You may recall that at the close of our meeting, I offered to write a summary of what was discussed in addition to directly responding to your letter dated March 15, 2013. In your March letter you requested a face to face meeting to discuss Adaptive Management and its potential application to Central Everglades Planning Project (CEPP) as well as requesting clarifying information on the Everglades Restoration Transition Plan (ERTP).

During our meeting, we covered the status of CEPP, with specific focus of where the project fits in the civil works process and how this study phase is different from implementation. We also discussed ERTP as an example of a project in the Operations and Maintenance stage of the civil works implementation process. Finally, we discussed Adaptive Management as an implementation strategy, how it relates to an effects determination, and where we believe we can jointly focus our energies in the future toward addressing your concerns over inundation of human remains.

In summary, Jacksonville District recognizes the Seminole Tribe's interest in incorporating adaptive management principles into CEPP. The Sec 106 consultation process will allow for continued coordination and development of appropriate adaptive management principles, also known as contingency measures, if warranted as the plan design, construction and operations are refined. Such determinations will be made when we have more detailed and refined information, which will enable the most accurate predictions in water deliveries south into the Everglades.

In the interim, we intend to continue the cultural resource identification work underway in CEPP, will make preliminary effects determinations based upon best available information, and will continue to consult with you as additional surveys are planned and conducted throughout the project. We would also like your continued collaboration on the development of the updated Jacksonville District Human Remains Policy, a commitment from our current and former District Commander. We expect this new policy to replace the existing CERP 2008 Human Remains Policy, and be applied to all civil works and regulatory projects within the Jacksonville District, including CEPP in the implementation phase. This is a large endeavor which has the potential to serve us for many years, but will only occur if we are equally committed to its development.

Finally, at the meeting we discussed how adaptive management principles/contingency plans have already been incorporated into the ERTP project, including your concerns regarding the expected water levels in Shark River Slough through the implementation of ERTP. For more detailed and specific information, we will ensure that the all necessary members of the ERTP team will be available to discuss water levels at the next ERTP quarterly meeting currently scheduled for July 18, 2013.

Again, I appreciate the opportunity to meet with you and your staff and would like to continue such discussions, preferably face-to-face, with some frequency in the future. In the interim, I intend to pursue quickening the pace of our Human Remains policy and will ensure that we have appropriate stakeholders present for the discussions. If you have any additional questions with regards to the Human Remains policy, feel free to contact Natalie Garrett, Tribal Liaison; questions concerning CEPP, please contact Cynthia Thomas, CEPP Cultural Resources Lead or questions concerning ERTP, contact Grady Caulk, ERTP Cultural Resources Lead. As always, I am available to assist you in any way that I can, so do not hesitate in contacting me when necessary.

Sincerely,

9 0 JUN 2013

Eric P. Summa Chief, Environmental Branch

Copy Furnished:

Susan Kaynor, Section Chief, Ecosystem Branch, USACE Anne Mullins, Deputy THPO, Seminole Tribe of Florida Bradley Mueller, Compliance Supervisor, Seminole Tribe of Florida James E. Charles, Attorney/Shareholder, Lewis, Longman & Walker, P.A.

THOMAS CYNTHIA G 1400734069	Thomas/CESAJ-PD-C/118
	Taplin/CESAJ-PD-C
	Summa/CESAJ-PD-E
	Acosta/CESAJ-PD-EP
HUGHES DANIEL BRYANT 1188810876	Hughes/CESAJ-PD-EP
GARRETT NATACIES 1292413854	Garrett/CESAJ-PM-E
CONTRACTOR SERVICE OF COMMAND STATE OF THE SERVICE	Moore/CESAJ-OC

for

***See CEPP PIR/EIS
Appendix C.3 for detailed

below.

From: Stephen Walker responses to comments listed

To: 'Ramirez, Armando'; 'donna.s.george@usace.army.mil'

Cc: 'Cherise Maples'; Michelle Diffenderfer; 'Patty Power'; 'Jim Shore'

Subject: Seminole Tribe Comments to the PIR

Sent: Tuesday, July 16, 2013 5:32 PM

Dear Donna and Armando,

Please see attached to this email the Seminole Tribe's handwritten comments to the Draft PIR. The Seminole Tribe of Florida ("Tribe") appreciates the opportunity to comment on the Draft PIR for the Central Everglades Planning Project ("CEPP") that is being prepared by the South Florida Water Management ("District") and the U.S. Army Corps of Engineers ("Corps"). We appreciate the opportunity to provide our comments on the PIR as a PDT member and look forward to providing more formal comments in the tribal consultation process. The Seminole Tribe remains supportive of the restoration of the Everglades, including the Central and Western Everglades, of which it is a part. The Tribe's remaining concerns regarding CEPP center largely on the Corps' inability to anticipate impacts, positive or negative to the Big Cypress Reservation, Preserve and Addition lands. The Tribe remains concerned that the project does not contemplate or consider the impact on the Western Basins including the Tribal Big Cypress Reservation, Preserve and Addition Lands. The failure to fully assess the impacts to the Western Basins and incorporate benefits for this area into the CEPP planning process continues to be an issue. This inability to model or analyze the Western Basins in connection with CEPP is a fundamental flaw.

We are disappointed to see that the PIR does not include any substantive analysis regarding supplemental water for restoration of tribal natural resources and protection of the Tribe's customary usage rights. We believe that the PIR should have discussed in detail, the Tribe's environmental water request. We recommend that the PIR consider development of alternatives which would direct supplemental water to the Big Cypress Seminole Indian Reservation and the Big Cypress National Preserve and Addition Lands. This is particularly relevant as the Tribe is the local sponsor for a Critical Project in the Western Basins which has the capacity to bring water for the restoration of wetlands on Big Cypress Reservation, Big Cypress National Preserve and Addition Lands. There are greater restoration benefits that could be realized by looking at a larger restoration landscape that are being lost by the segmentation of CEPP. At a

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minimum, the Corps sho	ould consider how CE	EPP and the Tribe	's Critical Proj	ect could be ana	ilyzed in a more h	olistic
manner to better accomp	olish the environment	al goals of CEPP.				
Sincerely,						
Stephen A. Walker						

	Section 2		Existing and Future Wil	thout Conditions	
					Sainesmekkii ee
556	2.6 NATIVE AMERICANS			and the state of t	Formatted: Culling numbered
557	Lands leased to the Miccosukee Tr	ibe of Indians of Florida are	currently experiencing	iong term high	Numbering Style: 1, 2, 3, + St Alignment: Left + Aligned at: 0"
558	water staging in the southern pa	rt of WCA 3A, which effec	is subsistence practices	and increases	Nighment: Left + Augned at: 0*
559	inundation risks to islands utilized b	v the Tribe.			-
560					
561	Predicted sea level rise for the sout	h Florida area for historic, in	termediate and high rate	s of future sea	en en en en en en en en en en en en en e
562	level rise are +5 inc	hes, +9 inches a	nd +20 Inches.	respectively	
563	http://publications.usace.army.mil/	oublications/eng-circulars/EC	1165-2-212 pdf. Sea le	evel rise would	
564	potentially effect habitation, cerer	nonial and sacred areas so	uth of Tamlami Trail an	id west of the	
565	Miccosukee Reserved Area under FV	VO project conditions			

The Seminate Tribe has customary usage
Rights in WCA 3A, the Big Cypress Preserve and
addition lands. We recommend adding language
to addiess these rights and analysis how this
prosect will impact these rights under the
existing and without analysis.

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SE ITSTED THE MEMBERS STAKE NOW TOWARD TO THE WORLD TOWN TO THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO THE MILLIAGE TO THE EVALUATION AND THE MILLIAGE TO T Opportunities should will the members additional mutual gools.

Section 4

4.5.2 Operational Refinements of the NER Plan

The results of the NER analysis identified Alternative 4M infrastructure as providing the greatest overall benefits with the least cost per habitat unit however, the evaluation identified the need to revise the operations of Alternative 4M to ensure the project savings clause cogstraints are met, minimize localized adverse ecological effects, and identify additional opportunities to provide for other water related needs.

Three modeling scenarios were conducted to identify project effects resulting from operational changes.

The first refinement, Alt 4R, focused on operation changes to avoid potential impacts to water supply levels of service in the Lake Okeechobee Service Area (LOSA) and Lower East Coast (LEC). Refinements included alleviating potential ecological impacts from lowered water depths in WCA 2B by retaining a small portion of the water in WCA 28 that Alternative 4M had diverted to WCA 3A. Increases in low flow events to the St. Lucie Estuary, minimized reductions in freshwater flows to Biscayne Bay, and improved water depths in eastern WCA 3B for purposes of improving environmental conditions were also considered.

Alternative 4R changed assumptions from Alt 4M by including:

- St Lucie Reservoir (C-44) backflow to Lake Okeechobee
- Revised Lake O. schedule releases to re-balance Lake / Water Supply / Estuary objectives.
 Reduced frequency & magnitude of CEPP L-6 Diversion operations in ALT4R relative to Final Array ALTs.
- increased utilization of \$144, \$145 and \$146 relative to \$11s.
- Increased seepage out of eastern ENP

This refinement resulted in an alternative that lessened concerns over violating constraints yet there remained room for improvement in LOSA water supply and the spatial distribution of groundwater and canal discharges in the LEC to provide greater confidence in meeting legal requirements of the savings clause. This alternative did not fully address the low flow events to the St. Lucie Estuary nor did it identify additional opportunities for other water related needs. ALT4R maintains the majority of the system benefit identified for Alt 4M in the final array evaluation and demonstrates a substantial hydrologic improvement over the baselines; however, represented a 6% decrease in overall project benefits due to competing demands for the allocation of water in the regional system.

Alt 4R.1

The second refinement, Alt 4R.1, was performed to determine if water supply cutbacks on LOSA could be further reduced and if increases in the LEC public water supply (PWS) could be met while maintaining the natural system performance realized from the adjustments that were made for Alt 4R. The PWS demands utilized in the alternative are based on per capita demand increases proportional to Florida's Bureau of Economic and Business Research (BEBR) medium population projections.

Alternative 4R.1 changed assumptions from Alt 4M by including:

- Revised PWS demand for LEC Service Areas 2 from 277 MGD to 295 MGD
- Revised PWS demand for LEC Service Area 3 from 412 MGD to 465 MGD

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The modeling does not domonstrate has the ym infrastructure br the 3 modeling scenarios will improd the Antoe's water needs for nutured leibhear ang chistoward The modeling thanked Consider the impact on the Tribaco Bill and vegan basins. And bothe examine vovo Ewod impacts will be dealy with M Consection with Came Overchardel Joleoneo.

focused on the trip Evaluation and Comparison of Alternative Plans With Section 4 affect Tribal compacts, and with adjustments maintaining water supply for existing users in the LEC (xx confirm/edit the highlighted items after Assurances modeling is completed in late June 2013). Alternative 4R ranks highly for the four P&G criteria. It is the most efficient of the four final alternatives and is near the most effective in achieving the objectives for the entire planning area. The acceptability of Alternative 48 is similar to the other three alternatives. None of the alternatives were completely free of stakeholder concerns. All four alternatives meet all legal criteria for implementation. Alternative 4R is complete, as are the other three alternatives Alternative 4R.2 would provide the greatest habitat unit benefits, defined as the average annual difference between With Project and Without Project conditions, for the Greater Everglades and Florida Bay while providing for other water related needs. Within the Greater Everglades region, Alternative 4R.2 would provide the greatest number of habitat units relative to the FWO innortheastern WCA 3Asouthern ENP (Zone ENP S), and southeastern ENP (Zone ENP-SE). Alternative 4R.Z would provide the second and third greatest number of habitat units relative to the FWO in northern and southern ENP (Zones ENP-N and ENP-S) and the fourth greatest number of habitat units relative to the FWO in areas adjacent to the Miami Canal in WCA 3AWCA 38 (Zone 3A-MCB). Alternative 48 would provide the same benefits as Alternatives 1, 2, and 3 to northern WCA 3A central WCA 3A, and the St Lucie and Caloosahatchee estuaries The ecological performance of Alternative 48 In WCA-38 is rations of the WCA 38 infrastructure is refined. The flow-way generated by the Blue Shanty levee in Alternative 4R.2 would increase flows through western WCA 38 (Figure G-3620) while maintaining protective water depths in eastern WCA 38. For the action alternatives considered with CEPP, Alternative 4R.2 would also best achieve the goal of re-establishing hydrologic and ecologic connectivity of WCA 3A, WCA 3B, and ENP by degrading the L-67 C and L-29 levees west of the Blue Shanty levee. Long, continuous and uninterrupted patterns of sheetflow from north to south are a defining characteristic of the Everglades. (Refer to Section G.2.2.3 of Appendix G [Benefit Model]) for further information on changes in overland sheet flow (Figure G-17) and proposed water-depths (Figure G-20) with Alternative 4 and potential benefits Alternative 48.2 is a cost effective and best buy plan. It has the lowest annualized cost per output for habitat units in the Greater Everglades area (WCAs and ENP) and habitat units in Florida Bay. Alt 4R, for Northern Estuaries, Greater Everglades and Florida Bay combined: 3.190,660 acres (~4.985 square miles). \$1,019,000,000 first cost; \$72,500,000 average annual cost; 259,110 average annual HU benefit. 319 first cost \$ / acre; 280 average annual \$ / average annual HU; CEPP unit costs are lower than Picayune Strand & Kissimmee River, which are justified as successful restoration projects CEPP Draft PIR and EIS

	Section 5 Tentatively § Tentatively Selected Plan	1
	6.1.2.2 Flow Equalization Basin Discharge Canal	ran.
	The A-2 FEB Discharge Canal runs from the STA 3/4 supply canal to the southwest corner of the A-2 FEB.	15.
	There are approximately 91.25 acres required for this canal. The canal runs along the southern portions	F:
	of Sections 35 and 36, Township 46 South, Range 35 East. Approximately 57.02 acres are owned by the	10.
	State of Florida and will be acquired by SFWMD. The remaining 34.23 acres are owned by SFWMD and	
	were acquired as part of the Talisman Exchange, with both Federal and State funds. The Federal funds	ès:
Production and the second	contributed by DOI pursuant to the Farm Bill Will be credited to the Federal share of the project cost.	100
<u>از برخمان و جادی محمد مستند کو به پریان کو که میپر</u>	The state funds contributed by SFWMD for the acquisition of the Talisman property will be credited to	12
Comment [SFWMD12]: The acquisition	SFWMD. Fee title will be the required estate for these ands. These lands are currently leased by either	
requirements in this section need to be clarified.	the State of Florida or the SFWMD to agricultural interests. More details are provided in Appendix D,	·
4.4	Real Estate	(ign
Tribely	시 1994년 전문 요. Night 전체 시 1994년 시 1994년 시 1984년 전 199	
The Tribe has customary us rights that we have successful outened in this section.	6.1.2.3 Water Conservation Areas 3A and 3B	
1 a will	SFWMD owns a variety of interests in WCA 3A and WCA38. These lands were acquired and provided for	
atimar 7	the Central and Southern Florida Project (C&SF). The SFWMD owns fee title to approximately	
Chan Clin	134,280.95 acres, a perpetual flowage easement over approximately 300,343.52 (with the fee owned by	
- Wat or	the State of Florida), a perpetual flowage easement over approximately 70,612 (with the fee owned by	
ombts 1	private parties), canal or levee easement over approximately 11,598.84 acres and a perpetual easement	
What was	for surface flowage rights over approximately 73,350 acres (with fee title owned by the State). All of	
1 A MICKELL	these lands were provided as an item of local cooperation for the C&SF Project. The rights owned by	
1 1/10/10 000 15	SFWMD in WCA 3A and WCA 3B have been determined to be sufficient for CEPP project purposes. The	
1 Mous LAN	SFWMO will recertify these lands to the Federal government when required for construction or	
\mathcal{L}^{\vee}	operations at no cost to CEPP. More details are provided in Appendix D, Real Estate	
· · · · · · · ·		
\mathcal{M}^{\sim}	6.1.2.4 Uniform Relocation Assistance Act, PL91-646 as amended There are no residential relocations entitled to Uniform Relocation Assistance Benefits associated with	
	project implementation. There are no businesses requiring relocation as a result of this Project;	
	therefore, there are no additional persons or businesses requiring relocation as a result of this Project,	
	Benefits, Public Law (PL) 91-646, as amended. All relocation benefits were included as part of the	
	Talisman exchange/acquisition agreement.	
	Taisman exchange/acquisition agreement.	
	6.1.2.5 Facility/Utility Relocations	
	Florida Power and Light lines will have to be relocated or abandoned from the center of the detention	
Comment [SFWMD13]: This location needs	area within the A-2 FEBL Florida Power and Light, and Quest Communications lines will have to be	
be updated	relocated where the L-29 is being removed. The removal of Old Tamiami Trail will require relocation of	
	the Florida Power and Light line.	
		Ì
Comment [SFWMD14]: Combine with Section	6.1.3 Oraft Project Operating Manual	
6.6.5	A Oraft Project Operating Manual (DPOM) was developed to control day-to-day water management	
Friedrich in der State (1997)	functions of the project. The DPOM encompasses all foreseeable conditions that may be encountered	
	during project operation. The project will be operated in accordance with the DPOM to achieve the	
	goals, purposes, and benefits outlined in the Project Implementation Report, including the improvement	
er met en dikasidi kal	of the quantity, timing, and distribution of water in the natural system. All costs associated with the	
Comment [SFWMD15]: Move to OMRRAR	physical operation of the project will be funded through OMRR&R. The DPOM is in Annex C	
Section		
Comment [SFWMD16]: Need to include a summary here of how the project features will be	It is important to note that refinements to the operating criteria and the DPOM will be made as more design details, data, operational experience and information are gained during preconstruction	

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	5.1.4 Adaptive Management and Monitoring Plan	- Comment [SFWMD17]: Combine with Sect
	The CEPP Adaptive Management (AM) and Monitoring Plan (AM and Monitoring Plan, Annex D)	666
3	identifies the monitoring information needed to inform CEPP implementation and to document	The second secon
	restoration progress to agencies, the public, and Congress. The overall objective of the AM and	
is e	Monitoring Plan is to focus resources on continued refinement of CEPP to fine-tune performance due to	
	inevitable uncertainties, based on existing knowledge and knowledge that will be gained through	
	monitoring and assessment.	
	Items in the AM and Monitoring Plan that are not required for regulatory monitoring are subject to	
	further prioritization and screening and are not guaranteed to be executed. As test project and pilot	Comment [SFWMD18]: There needs to be detail added here on the obligations to implement
	project results become available, as continued ecosystem monitoring data become available, and as the level of knowledge changes through time, it is likely that the number of items that need to be included	Also add more information for prioritization and
	in the final AM and Monitoring Plan will be reduced.	screening Nators.
	in the titus win and monitoring sign will be reduced.	
	A fundamental principle of AM is that a project can be adjusted to continually achieve high performance	
	toward the project's goals and objectives and to remain within its constraints. In particular, in AM the	
	adjustments are not "trial and error", which can be costly and erratic, but rather they are based on a	
	scientifically efficient and sound process of learning from data. These adjustments should be viewed as	
	intelligently fine-tuning the project, the need for which is almost inevitable in a large-scale, long-term	
	restoration project like CERP. Given this fundamental principle of AM, the CEPP AM and Monitoring	
	Plan provides suggestions for adjusting certain aspects of CEPP if necessary. The suggestions are based	
	on current experience and knowledge and are provided for discussion. The suggestions are not required	
	actions, nor are they meant to limit agencies from considering other options. They have been analyzed	
	under the existing NEPA analysis of CEPP in Sections 4 and 5 and in Appendices C.2.1 and C.2.1. See	
	Annex D for the full AM and Monitoring Plan.	
	6.1.5 Exotic and invasive Species Management Plan	
	An exotic and invasive vegetation management plan has been developed in conjunction with USACE	
	policy. This policy complements the National Invasive Species Act and strives to either prevent or	
	reduce establishment of invasive and non-native species at project sites. The primary objectives of this	
	effort for CEPP is to establish favorable conditions suitable for the long-term maintenance control of non-native species, and the re-establishment of native flora. To achieve these goals, this plan proposes	
	to complete both initial and long-term invasive plant control efforts necessary to achieve maintenance	
	control levels of invasive vegetation within the project area. Specifics of the nuisance and exotic	the appropriate the service of the s
	vegetation control plan are contained in Annex D.	
		Assessment Services
	6.1.6 Recreation Features	Comment [SFWMD19]: Need to add recrea
	The proposed recreation facilities will increase access into the Greater Everglades and enhance users'	associated with A-2 FEB.
	opportunities and access within the marsh. Facilities include sufficient gravel parking with boat ramps	
	and trail heads, dry vault toilets, shelters, and Americans with Disabilities Act compliant <u>fishing</u>	
	platforms. Within the Everglades, facilities will enhance user opportunities through establishing	Commence of the commence of th
	northern-Canalthe-Canalairboat crossings over levees and boat accessible marsh tent camping sites.	Comment [dec20]: His this been agreed to CEPP recreation feature? Potential water quality
	Pedestrian accessibility will be maintained along levee routes through existing and proposed water	implications and hydrological effects would see
	control structures. Typical activities supported are multi-use trails and blue ways, hunting, fishing and	be assessed within the CEPP NEPA. I recognize has been long recommended by recreational
	wildlife viewing. Recreational features will be constructed on SFWMD fee lands, eliminating real estate	interests, including during the DPM, but was no
į,	expense for recreation.	aware of a final determination
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	15 marchan All Contract	11/11/10 GOKIGHT
	S The Tribe has customary on include activities such as hurting, for areas such as wet 34, 1379 Cy, and addition lands.	man - him
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	Small L. Asimilar Links Ad hillating	Hohine Imaai
	CIVITY ALAR (LCHVITYS SAUCE)	h77 00
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Section 5 Tentatively S
Tentatively Selected Plan

	Cultural Resources	
Goographic Regions	Future Without Project (No Action Alternative)	Alt 4R
Old Tamiami Trail	No effect	Major long term adverse effect. Potential mitigation down to no offect.
L-67 Ext. Levee	No offect	No offect
144	No effect	Potential Major long-term adverse offest. Potential mitigation down to no effect.
S-356	No-effect	No effect
L-28	No offect	Unknown, survey-needed
G-211 Operational Refinements	No-effect	No effect
5-334-to-5335-Seepage-Barrier	No effect	Not Applicable No effect
Draft Preliminary Operations Plan	Unknown	Unknown

5.5.2.16 Native Americans *** Section Incomplete for DQC***

The Microsukee Tribe of Indians of Florida and the Seminole Tribe of Florida rely upon upon the Everglades in its natural state to support their religious, subsistence, and commercial activities. The Fribes' Federal Reservation lands are citiher partially situated or immediately adjacent to WCA at Figure C1-14). In addition, the Microsukee Tribe holds a perpetual lease from the State of Florida ever a large portion of the WCA 3A. Subsistence activities for both Tribes include frogging, oriobast materials, hunting and fishing while the Microsukee Tribe's ememorarial activities include frogging, oriobast and other guided tours, and providing recreational and tourism facilities within the Everglades. The Microsukee Tribe's perspective on southern WCA 3A water stages is that flooding and degrading of tree islands was an issue prior to ERTP, which has threatened the health and affety of the Tribe (Microsukee Tribe of Indians of Florida CEPP NEPA Response Letter 20 January 2012).

Table 5-5-135-13. Environmental Effects of Alt 4R: Notive Americans

Charles and Themselve, assets the Constitution of	Native Americans	Catalogica (Catalogica)
Geographic Regions	Future Without Project (No Action Alternative)	Alt-AR
Lake Okeethobee		
Northern Estuaries	18. 34%	
EAA		
Greater Everglades	333-	
Southern-Estuaries	Lighten and the second and the	

6.5.2.17 Invasive Species

Alt 4R has the potential and likelihood for establishment and spread of non native invasive and native nuisance species (Table 5-13). Proposed restoration activities may affect ecosystem drivers that directly or indirectly influence the invasiveness of non native species. These factors may affect invasive process positively or negatively, depending on the unique characteristics of individual species and the environmental conditions for a given biological invasion (Doren et al. 2009). For example, shortened surface water-drawdowns may reduce the recolonization rates of melaleusa in sawgrass marsh white increasing habital suitability for Cid World climbing form in tree islands. Many of the areas where features are proposed are currently inhabited by non native invasive and native nuisance species. Construction of the proposed features has the potential to spread the existing non native invasive and native necessary.

Comment [baf39]: Native Americans ***
Section Incomplete

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a table that full analyses on the more affection of solicitisms of the control of

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Section 5	Tentativ	ely-6
	Tentatively Selected	Plan
	would aid in improving suitable habitat for pink shrimp, juvenile spotted seatrout, sea turtles, manatee and crocodiles among other species.	
Future	Some level of improvement to fish and wildlife resources is expected to occur as a result of implementation of projects with the capability of improving the timing, quantity, quality and distribution of freshwater flow to the study area. Hydrologic restoration planned as part of CERP would further improve fish and wildlife habitat.	
Cumulative Effect	Habitat improvement efforts are anticipated to benefit fish and wildlife resources.	
	Vegetation and Wetlands	
Past Actions	Drainage of Florida's interior wetlands, conversion of wetlands to agriculture, and urban	
Present Actions	development has reduced the spatial extent and quality of weitand resources. Efforts are being taken by state and Federal regulatory agencies to reduce wetland losses.	
Proposed Action	Negligible effects to vegetation within Lake Okeechobee and the EAA are anticipated. Reductions in the number of high discharge events to the Northern Estuaries are anticipated to improve conditions for seagrass beds. Significant beneficial effects are anticipated within the Greater Everglades. Improved hydroperiods and sheetflow within WCA 3A, 3B and EMP would result in reduced soil oxidation, promoting peat accretion necessary to rebuild the complex mosaic of habitats across the landscape. Increased freshwater flows to Florida Bay would aid to lower sainity levels, benefiting mangrove communities and seagrass beds.	and of rote and both of out
Future Actions	Some level of improvement to vegetative communities is expected to occur as a result of implementation of projects with the capability of improving the timing, quantity, quality and distribution of freshwater flow to the study area. More natural hydrology as part of the CERP would assist in restoring natural plant communities.	- popular programa
	While the spatial extent of natural plant communities would not be restored to historic proportions, the quality of vegetative communities would be improved.	
	Cultural Resources	
est Actions	Flood and water control projects, conversion of wetlands into agriculture and urban development have had adverse unmitigated effects to cultural resources either directly or indirectly.	
Actions	Ongoing efforts have been made by Federal and state agencies to implement projects to improve hydrology within the project ares, threeby stabilizing the tree islands which are known to have a high potential for cultural resources.	
Proposed Action	While effects of the proposed action have been evaluated, a final determination of effects on cultural resources is not complete. Consultation with stakeholders, including the State Historia Preservation Office, Advisory Council on Historic Preservation, Seminole Tribe of Florida and the Miccosukee Tribe of indians of Florida is currently ongoing.	
Future Actions	Continued improvement to hydroperiods and sheetflow within WCA 3A, 3B and EMP could reduce soil oxidation, which could stabilize the environment, and this in turn could stabilize tree islands containing cultural resources. Investigations mandated in the Programmatic Agreement for EMP are in the process of being completed and will determine the effects of fluctuating water on subsurface historic properties.	
Cumulative	Cumulative effects to historic properties and culturally significant sites will be potentially major long-term adverse effects. Mitigation measures for effects to historic properties could reduce the cumulative effect to be minor long-term adverse effects.	
2 - 43 s. 1 s. 1 s. 1 s. 1 s. 1 s. 1 s. 1 s.	Water Quality	Communit [MAN49]: Mark Shafer to review and
		edit.

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Section 5	Testal	
	Tentatively Selecte	U PIAIT
Present Actions	Efforts to improve water quality from agricultural areas are ongoing. Federal and state projects would temporarily elevate localized levels of suspended solids and turbidity.	
Proposed Action	implementation of the proposed action would likely result in no additional exceedances of the Everglades Settlement Agreement as compared with the current operational plan. Water quality changes potentially affects fish and wildlife resources by altering vegetation composition or structure.	
Future Actions	Aggressive actions by the State of Florida would decrease pollutant concentration and loading to the project area. If authorized in the next Water Resources Development Act (WRDA), the Broward County WPA Project, (report approved in 2007) would reduce storm runoff deliveries to WCA3 and improve water quality coming across Tamlani Trail.	
Cumulative Effect	While anthropogenic effects on water quality are unlikely to be eliminated, water quality is expected to slowly improve over existing and recent past conditions.	
	Water Supply/Flood Control	
Past Actions	Water supply and flood control for agricultural and urban users has benefited from construction and operation of the C&SF project.	
Present Actions	Availability of water from Lake Okeechobee for agricultural users were recently diminished through implementation of LORS 2008. Availability of water for urban users were recently diminished through implementation of ERTP.	
Proposed Action	Implementation of ALT 4R2 would likely have no effect on water supplies to agricultural users dependent on Lake Okeechobies. A portion of the urban users, namely LECSA 2 and 3, future supplies would increase slightly.	
Future Actions	Future supplies would not change in the future unless additional storage or hydrologic improvements to the Everglades are implemented and increase water availability.	
	While effects on water supplies are unlikely to improve, water supplies available for agricultural and urban users is expected to remain stable.	ocoal ares
	to accomplish the broader could be together and pre the broader that the b	where capacity waters where excess waters would be corps corp would be corps corp with a corps corp with a corps corp we corps corp we corps corp we corps in help wonth or first
	consider analy consider analy consider analy consider analy could be togher as a second could be togher as a second could be togher as a second pre there ellicientiss could pre there ellicientiss are wanted	restor an ing help
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		Tentatively Selected Pla		
			a moren	
5.6 PLAN IMPLEM	NTATION	Sing Marketing in proper self-	1a	2. L.Q
molementation of CEP	P will occur over many years and includ	e many actions by USACE and SFWME) a make N) II '
	es the major implementation steps that		, /// (1wi~	
ind apprioriateion of f	unding for Project construction. The Te	intatively Selected Plan is composed of	approach	th
eatures which can be	grouped into separable elements. Th	iese separable elements are physical	v l moraco	٧.
eparate from other p	ortions of the Project and which eith	er 1) achieves independent hydrologi	E 1000'	
enefits or 2) produ	es independent environmental or ex	onomic benefits that are separatel	¥ 100	N
dentifiable from those	produced by other separable Project	elements. CEPP will be designed an	d 111 0100+	
onstructed in phases,	which each construction phase containing	one or more separable elements as se	i Itmil	. 1
	is approach gives the USACE and the SFV		approach the greater	سرر
	ements as agreed to by the parties.		e L. ASCOR	. Tal
	naximizing the opportunity to realize inc		the greater undscape	11
	tilized existing water in the system whi		· IV . allov	~
	os wil select particular separable eleme		e I so W	
	enefits to the extent practicable and co-			i:Cl
	See Annex D.) Table 6-5 identifies		meateres in the St	n ' -
	art of each separable element. Figure 5		e Innoar or	, ,,,
	equencing plan for implementation of		I IW	M
	s, or amendments to existing PPAs, will have for one or more separable eleme		" I I was Su	//
	Final PIR/EIS. After all approvals are atta		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	ion. After authorization, USACE would		and best	N
	ficient details of design are available, th		: In a local	
	artnership Agreement (PPA). It is possib			+
	uction (see below). SFWMD would obt		* 1" - 4M	ν
	Before the end completion of PED and			
ny project constructio	- contracts, SFWMD would and certify	the LERR to USACE. , and the SFWM	5 P.C.	CA
nd USACE would execu	te a legally-binding Project Partnership A	greement (PPA).	- ack AU	ā., i
he PPA is a binding agr	eement between the agencies and the re	equired contents of a PPA are detailed i	" morecus t	
he CERP Master Agreer	nent. It is possible the project will be spl	it Into multiple PPAs.	P	NU
	- Marie - Marie		1.0	"
	A and certification of LERR, the USACE :		projects fur Value is of	21
	features. An operational testing and r		* 1 M	7.
	truction of each feature or set of featur		· 1:7.89 ·	
	isferred to SFWMD for operation and r		1 1000°	. VA
	ation-management-1_Regional-ecosyste		value is of	Jr.
	ve Assessment and Management Progr	am implemented by RECOVER. Projec		
pecific monitoring wou	d be funded through O&M <u>OMRR&R</u> .		1 a lift	
and the second s		Andreas Control of the Control of th	believe that Corps Should	4
Aost of the major-steps	are discussed further in the following su	bsections.	~ hand	/
	المنطقة والمناف والمناف		COUPS Should at Pl	
	Engineering and Design		. (N/2)	30
	ring and Design (PED) of CEPP would be		" COM, The	1
	s concurrence and will be implemented	in a phased approach with each phas le site-specific surveys and geotechnica	e mare .	

CEPP Draft PIR and EIS

prosects timpact to projects the western basins.

Section 5	Fentatively <u>G</u> Tentatively Selected Plan	-plans?
conducted	to prepare construction documents. See Section 5.1 for a list of plan features to be	P**
constructed	I. See Appendix A and Annex C-2 of Appendix A for conceptual design plates.	
PEO activiti	es will be in accordance with USACE construction standards, including cultural resources	
	Preliminary design activities, which include survey and geotechnical investigations as well	
	resources compliance, will commence upon authorization and with SFWMD approval. The	Comment [dec50]: Text was previously states in the prior puragraph
	Appendix (Appendix A) represents less than 30 percenta limited level of design, but	(It the burst brasilistor
	cumentation of all engineering assumptions and conceptual designs and OMRR&R cost share med/ State operated facilities identified to date in support of cost estimate development for	
	TSP. Upon project authorization and SFWMD approval. USACE will prepare an Engineering	Comment [dec51]: Approval of what? Piesse
	ort updating the conceptual design and, prepare initial, intermediate and final plans and	specify.
specification	ns for multiple construction contract awardseach phase of construction. All work would be	Comment [baf52]: Spell out EDR
	I and reviewed with SFWMD <u>and reviewed and approved</u> to ensure that the work meets	
USACE stan	dards and regulations and incorporates SFWMD design guidance, as applicable.	
5.5.2 Con	Extraction	
	ned that the project will be constructed using conventional means and methods. Multiple	
	rill be awarded in a sequenced and phased approach. The project features werewill be	
	y sequenced and conceptually placed in contracts that maximize opportunities to realize	
	th clean water already in the existing systemexisitn water that meets State water quality	
	apitalize on use of onsite material, reduce multiple handling scenarios, and maintain flood rations of existing features. Adaptive Management will help with future development of the	
	rations of existing features. Adaptive management will help with ratiole development of the ition and sequencing.	
viithseii reiise		
6.6.3 Con	struction Sequencing and Implementation Plan	
	sumptions are made to conduct any planning effort as to what the future condition of the	features mot 1
	nay look like if no action is taken, referred to as the FWO project condition. It is a best guess	"-12"
	of what is likely to occur in the study area in the future. The CEPP FWO project condition at certain CERP projects that are currently under construction, as well as those CERP projects	0.63"
	completed the planning process and are awaiting Congressional authorization, would be	le i
	This is a projection of what the configuration of the system would be without a CEPP	" alat 8
	th the identification of a tentatively selected plan for CEPP, the next step is to consider how	It is clear that of its clear proje in capp proje a man capp proje
CEPP featur	es would be implemented in the future (with-plan condition).	14 is Olem 10 At or
i de la lice	nent of construction sequencing, a number of non- CEPP projects must be in place before	y we war .
	ng any CEPP features. Additionally, certain non-CEPP project features must be integrated	1: cyll may
	uencing of CEPP to avoid unintended adverse consequences as set forth in Table 6-5 below.	1120 VODA.
	c principles were considered in development of an implementation plan for CEPP features	LOON Ler All
which includ	le the following:	Thou '' r
		Jimaiyi N
	 All features of the State's Restoration Strategies must be completed and meet state water quality standards prior to initiating construction of most CEPP project features: 	is dependence of mon capporous and cocordingly holistic analysis holistic analysis and the series
	Construction of CEPP Project features cannot proceed until it is determined that	war in
	construction and operation of the feature:	i listic " listic of
	a. Will not cause or contribute to a violation of State water quality standards; and	NOW WELL
	b. Will not cause or contribute to a violation of any applicable water quality permit	1, 19 Mr. 14
	discharge limits or specific permit conditions; and	occording Johnson Certific analysis Shanks us periods for certific analysis of constant and the constant and
Angles (1944) Haranasan		Dir Toxes, Cel
0221378-3	CEPP Draft PIR and EIS 5-5-4 July 2013	inno non 1
	0-94 July 2013	- 1 V V V 1/1

Section 5 <u>**Tentatively Selected Plan**</u> 228 c. Reasonable assurances exist that demonstrate adverse impacts on flora and fauna 229 in the area influenced by the Project features will not occur. 230 231 3. Appendix A water quality compliance must be addressed for new Project water 232 entering Everglades National Park 233 Additional CEPP water quality treatment features, including operational and structural 234 modifications, may need to be constructed if State water quality standards are not met Comment [SFWMD53]: Add additional Water Quality Language once aggrisations between the State and Federal Governments are complete on this 235 upon operation of CEPP project features 236 Sequencing for the earliest opportunity to realize benefits, including the features that 237 can provide benefits that utilize existing water meeting State water quality standards. 238 Additional outlet capacity from WCA 3A must be provided before new. Project water 239 from Lake Okeechobee is released into the system 740 1-7. Location of the sources needed for Miami canal backfilling and the blue Shanty Levee to 241 minimize costs associated with double handling and stockpiling of materials The Tribe has
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wa 242 243 Four basic principlesals were considered in develop 1) Consideration of the sequencing for construction of features that provide the earliest opportunity to 244 245 realize benefits, <u>including</u>ia, features that could provide benefits with the existing volu 246 inflows prior to bringing additional water from Lake Okcechobee; 2) cConsideration of any aspects of the FWO condition that must be in place before implementing any CEPP features to avoid any detrimental or un intended adverse consequences. A <u>la</u> summary of the relationship of CEPP features to other projects is provided in Table S-17): 3) Recognition that additional outlet capacity from WCA 3A 247 248 249 must be provided before bringing in additional water from Lake Okeechobee; 4) Coonsideration of the sources of fill needed for the Miami Canal backfilling and the Blue Shanty levee and sequencing the 252 construction of these features to minimize additional costs associated with stockpiling double handling. 253 254 255 Table 6-556175-175-16. Project Dependencies Dependency of CEPP Features Project A-1 FEB State Required prior to implementation of northern WCA-3A distribution features (L-4 Restoration Strategies degrade, new divide structure, S-8 Modifications, L-5 and L-6 improvements, Miami Canal Backfilling) to ensure adequate water quality treatment of inflows modeling, on this C-111 South Dade Extension of the detention area levees to connect with 8.5 Square Mile Area (SMA) required order to significantly increasing flows to NESRS to enable operation of S-357 pump station to provide seepage management to 8.5 SMA MWD 1-Mile Bridge & Required prior to implementation of WCA-3B inflow structures along the L-57A&C josne (Jis levees or increasing flows through existing S-333 to NESRS to ensure adequate road Road Raising protection to allow for increased stages in t-29 canal Critical. BCWPA C-11 Required prior to increasing flow through \$333 or implementation of WCA.38 inflow structures along the L-67A&C levees to ensure adequate water quality of inflows to Impoundment prease see NESRS Required prior to increasing capacities of yat S-333 and S-356 and implementation of Tamiami Trail Next Steps WCA-38 inflow structures along the L-67A&G levees, gaps in L-67C levee and Blue Bridging and Road Overall notes Raising Shanty flowway (L-67C removal, L-29 levee removal).

Required prior to re-directing the full 200,000 ac-ft/yr from Lake Okeechobee south to IRL-S C-44 reservoir the FEB to avoid reduction in low flows to the St. Lucie Estuary The FEE to avoid reduction in low flows to the St. Lucie Estuary

Whish we compared the and EIS Control with 2013 of the Control of the Compared that the property of the Control of the C 256

Section 5	Tentatively & Tentatively Selected Plan	
A fundamental principle of AM is that a project	t can be adjusted to continually achieve high performance	
	reduce or eliminate unintended consequences. to remain	
	adjustments are not "trial and error", which can be costly	
	iclentifically efficient and sound process of learning from	
	Intelligently fine-tuning the project elements, design and	
	d for which is almost inevitable in a large-scale, long-term	
	son why adaptive management plans are a required PIR nental principle of AM, the CEPP AM and Monitoring Plan	
	ible and necessary. The suggestions are based on current	
	for discussion: they are not required actions, nor are they	
meant to limit agencies from considering other		
사용하다 입다면서 보다면 되지않다.	일을 보면 불쾌하는 것이 나타니다 하다.	
	nd constructed in phases with each construction phase	
	This adaptively managed implementation approach will	맞아 다 나는 바다 하면 있는 어떻게
	ecosystem restoration benefits and minimize or eliminate	
	Plan provides the USACE and the SFWMD with maximum le elements as agreed to by the parties. The USACE and	
	ents and the sequencting of such separable elements to	
	e and consistent with the Adaptive Management and	
Monitoring Plan.		
	nagement Plan (Annex D), several potential management	
	les were developed. Potential environmental effects of	
	nagement options were analyzed within Sections 4.1 and s document. However, the seven adaptive management	
	emented to address CEPP uncertainties, require additional	
	iderations of these management actions are described in	Comment [dec60]: Additional analysis, Please
detail below.		add clarity whether this section is intended to provide NEPA assessment or whether this would be
		conducted as a separate effort.
	n feature to allow testing of restoration potential and	Comment [dec62]: Text is Suplicative from
degree of success with and without vegetatio	ren renta e Miles e en cales e les elles elles entre renta la communitation de la communitation de la communit	section 5.1.4. Recommend condensing here and referencing the prior section as appropriate.
	re in northwest WCA 3A provides an opportunity to utilize tainties regarding restoration of water flows and levels	
	isiderations: Experimental design to include vegetation	
	of Hydropattern Restoration Feature (HRF) to improve	1 1 lime
	management will not be employed downstream of the	that there ack management ack management man
	agement downstream of the hydropatterns restoration	FINC
	burning, herbicide treatment or scarring of existing	, v
	effects on water quality due to potential increase or	· Wass - Co
	nutrients may result in short-term increases in primary	Und Town
	sh and invertebrates, followed by increased foraging	Than - was
	oss of woody vegetation within the managed area would s; however, perch sites would likely be available in the	0.98° . je
	ation in northwest WCA 3A coud promote water flow	"MAD MADOO
	est of the Miami Canal and minimize water depths and	11m 104:1

CEPP Draft PIR and EIS 6-59

July 2013 add thomas have been about the market of the state of the st

Section 601(h) [4] [A] of WRDA 2000, entitled "Project-Specific Assurances", requires project implementation reports among other items to:

• identify the appropriate quantity, timing, and distribution of water dedicated and managed for the natural system

• identify the amount of water to be reserved or allocated for the natural system necessary to implement under State law

**Ollowing analysis of the model results, the results and conclusions will be reported in this section,

ontribution to interim goals and targets may be in this section (or moved to Plan Accomplishments)

VIEWS OF NON-FEDERAL SPONSOR

| PROJECT CONCERNS AND CONTROVERSERIES

APTIVE MCT AS A WAY TO ALLEVIATE CONCERNS Non
notremental Restoration and Future Water

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The National Academy of Sciences has recommended the implementation of CERP through an incremental adaptive restoration (IAR) process. CEPP has adopted that recommendation and has formulated a solution for an increment of overall restoration of the South Florida ecosystem. incidentally, there are problems and opportunities remaining. CEPP is not meeting all targets of the pre-drainage Everglades, however does provide for significant and substantial restoration of ecosystem and achieves approximately 2/3 of the additional water flow that CERP envisioneds.

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Northern Estuaries Florida Bay

Water Supply

 Water Levels in Water Conservation BA.WCA BA

Raising water levels in and distributing water across Northern WCA 3A is paramount to reestablishing a 500,000-acre flowing system through the northern most extent of the remnant Everglades, however; adverse impacts to mammals dependent upon upland habitat could occur due to increased water stages and changes in water distribution in northern WCA BAL

618 White tailed deer occur widely in Florida; th are found in every county where suitable 619 habitat occurs. They are Florida's most important game species, from a perspective of 620

623 Compared to other areas of Florida the Everglades WMAs are not considered to be 624 prime deer habitat and support relatively low 625 626 deer population numbers and recreational opportunities. However, there is a large 627 nen that hunt deer contingent of sports 628 area and have publicly voiced concern impacts to the deer-herd in Northern-WCA 630 631 fre raised water levels due to CEPP. 632 addition to concerns over dear impacts K11 questions have been raised over potential 634 impacts from higher water levels on accessibility in WCA 3A resulting from vehicle 635 636 and airboat closures and to existing leased hunt

-cultural

Comment [SFWMD63]: Need to reword this section to more fully address the restoration bene-

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Environmental Compliance

Protection of Wetlands E.O. 12962, Recreational form of proposed action would have an adverse affect on recreational fisheries in Proposed action would have an adverse affect on recreational fisheries in Proposed action would have an adverse affect on recreational fisheries in Proposed action would have an adverse affect on recreational fisheries in Fisheries in Compliance with geals of this E.O. 13898 Environmental in compliance with geals of this E.O. 13898 Environmental or safety fish that have beeded action would benefit all population groups in Oroxiding action of Marcin, Palm Beach, Brownents in the Caloosahatchee and St. Lucie Estuaries, the Bile Sharth flow way and the rehydration of northern WCA. 3A. Proposed action would benefit all population groups in Oroxiding East and St. Lucie Estuaries, the Bile Sharth flow way and the rehydration of northern WCA. 3A. Proposed action would benefit all population groups in Oroxiding East and Monroe Counties by Martin, Palm Beach, Brownens and Monroe Counties by Martin, Palm Beach, Brownens and Monroe Counties by Martin, Palm Beach, Brownens and Monroe Counties by Proposed action is not expected to have environmental or safety fists that in compliance with goals of this E.O. Anuisance and exotic vegetation control plan as been prepared to prevent project area. Control plan is located in Annex D. Proposed action in sepected to benefit sepecies within the project area. Control plan is located in Annex D. Proposed action is expected to benefit sepecies within the project area. Control plan is located in Annex D. Proposed action is expected to benefit sepecies by improving habitat and increasing availability of foraging opportunities. The USACE has consulted with the Microsukee Tribe of Indians of Florida and Seminal Proposed action and the properties of Florida and Seminal Proposed action and the properties of Florida and Seminal Proposed action and the properties of Florida and Proposed action and the properties of Florida and Proposed action and the properties of	and Regulations	Status	Comments
In compliance with geals of this E.O. In compliance with geals of this E.O. This E.O. is not applicable in compliance with goals of this E.O. In compliance with goals of this E.O. In compliance with goals of this E.O.	Protection of Wetlands		objectives of the proposed action are focused on environmental protection
in compliance with geo ls of this E.O. In compliance with geols ethis E.O. This E.O. is not applicable In compliance with goals of this E.O. In compliance with goals of this E.O. In compliance with goals of this E.O.	E.O. 12962, Recreational Fisheries	In compliance with ge als of th is E.O.	Proposed action would have an adverse affect on recreational fisheries in Water Conservation Area 3 with the backfilling of the Miami Canal, but is expected to have a beneficial affect with improved recreational fisheries in Florida Bay and slight improvements in the Caloosahatchee and St. Lucie Estudies, the Blue Shanty flow way and the rehydration of northern WCA 3A.
In compliance with geals of this E.O. This E.O. is not applicable in compliance with goals of this E.O. In compliance with goals of this E.O. In compliance with this Memorandum.	E.O. 12898 Environmental Justice	in compliance with geals of this E.O.	Proposed action would benefit all population groups in Okeachobee, Glades, Martin, Paim Beach, Broward, Mami-Dade and Monroe Counties by providing, restoration of wetlands and other natural resources within the project area.
This E.O. is not applicable in compliance with goals of this E.O. In compliance with goals of this E.O. In compliance with this Memorandum.	E.O. 13045 Protection of Children	In compliance with geals of this E.O.	Proposed action is not expected to have environmental or safety risks that may disproportionately affect children.
In compliance with goals of this E.O. In compliance with goals of this E.O. Lin compliance with this Memorandum.	E.O. 13089 Coral Reef Protection	This E.O. is not applicable	Coral reefs are not affected No coral reefs are located within project area.
In compliance with goals of this E.O. In compliance with this Memorandum.	E.O. 13122 Invosive Species	in compliance with goals of this E.O.	A nuisance and exotic vegetation control plan has been prepared to prevent or reduce establishment of invasive and non-native species within the project area. Control plan is located in Annex D.
In compliance with this Memorandum.	E.O. 13186, Responsibilities of Federal Agencies to Protect Migratory Birds		Proposed action would not adversely affect migratory bird species. Proposed action is expected to benefit species by improving habitat and increasing availability of foraging opportunities.
	Memorandum on Government to Government Regulations with Native American Tribal Governments	In compliance with this Memorandum.	The USACE has consulted with the Miccosukee Tribe of Indians of Florida and Seminole Tribe of Florida throughout CEPP planning byocces.

Comment [GSE4]: Cardy Comment: For Cultural Resources - See appendix C.5. References to the appendix will be added throughout the text.

CEPP Draft PIR and EIS

Section 8 Recommendations

> interest shall implement such plan not later than one year after completion of construction of the Project. The Non-Federal Sponsor shall provide an information copy of the plan to the Government upon its preparation;

- 4. The Non-Federal Sponsor shall prescribe and enforce regulations to prevent obstruction of or encroachment on the Project or on the lands, easements, and rights-of-way determined by the Government to be required for the construction, operation, maintenance, repair, replacement, and rehabilitation of the Project, that could reduce the level of protection the Project affords, hinder operation or maintenance of the Project, or interfere with the Project's proper function.
- u. The non-Federal sponsor shall execute under State law the reservation or allocation of water for the natural system as identified in the PIR for this authorized CERP Project as required by Section 601(h)(4)(B)(ii) of WRDA 2000 and the non-Federal sponsor shall provide information to the Government regarding such execution. In compliance with 33 CFR 385, the District Engineer will verify such reservation or allocation in writing. Any change to such reservation or allocation of water shall require an amendment to the PPA after the District Engineer verifies in writing in compliance with 33 CFR 385 that the revised reservation or allocation continues to provide for an appropriate quantity, timing, and distribution of water dedicated and managed for the natural system after considering any changed circumstances or new information since completion of the PIR for the authorized CERP Project.

La more holistic analysis of A-18eb, CEPP Therefore, I recommend that(May need to add additional recommendations to reflect the resolution of currently unresolved policy items, as of 15 March 2013 such as water quality, cost sharing of O&M of A-1 FEB and STA 3/4, cost of L-67A culverts, and/or apply CERP-specific HTRW AgChem policies.)

The recommendations contained herein reflect the information available at this time and current Departmental policies governing formulation of individual projects. They do not reflect program and budgeting priorities inherent in the formulation of a national Civil Works construction program nor the perspective of higher review levels within the Executive Branch. Consequently, the recommendations may be modified before they are transmitted to the Congress as proposals for authorization and implementation funding. However, prior to transmittal to the Congress, the Sponsor, the State, interested Federal agencies, and other parties will be advised of any modifications and will be afforded an opportunity to comment further.

Alan M. Dodd Colonel, Caros of Engineers District Engineer

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CEPP Draft PIR and EIS

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DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO ATTENTION OF

2 6 JUL 2013

Planning and Policy Division Environmental Branch

Mr. Fred Dayhoff NAGPRA Representative, Tribal Consultant Miccosukee Tribe of Indians of Florida P.O. Box 440021 Miami, Florida 33144

Dear Mr. Dayhoff:

The U.S. Army Corps of Engineers (Corps) in partnership with the South Florida Water Management District (District) are conducting a feasibility study for the Central Everglades Planning (CEP) Project (DHR Project File No. 2012-01115). A component of the feasibility study will be the construction and operation of a 14,000 acre Flow Equalization Basin (FEB) within the Everglades Agricultural Area Cell A-2 (EAA A-2). For your records, in 2002 this parcel was consulted under the description Everglades Agricultural Area Storage Reservoirs Project Component A (DHR Project File No. 2002-09656).

Following consultation with your office on 2012 April 27 and subsequent review of previous research conducted in the area (Survey # 5610 and 4869), the Corps concluded that additional investigations would be required for the EAA A-2 FEB footprint. With the use of historic and modern aerials, the Corps identified vegetation anomalies within the project area, and contracted Southeastern Archaeological Research Inc. to conduct field investigations of those specific areas As a result, three prehistoric midden sites (8PB16037, 8PB16039, and 8PB16040) and one historic agricultural work camp (8PB16038) were identified. The Corps has determined that only prehistoric site 8PB16039 meets the criteria for eligibility for listing on the National Register of Historic Places.

For the CEPP feasibility study, only preliminary FEB design plans have been developed, which makes it impracticable for the Corps to make a final determination of effect on significant cultural resources at this time. Once Congress has authorized the CEP Project and the FEB enter into the detailed design phase, the Corps will make a final determination of effect for site 8PB16039. In addition, consultation will be needed to identify methods to address potential impacts to site 8PB106040, which contains human remains. Currently the EAA A-2 property is under lease to Florida Crystals by the District and actively cultivated with sugar cane.

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In accordance with Section 106 of the National Historic Preservation Act of 1966, as amended, we seek your comments on the draft report titled, Central Everglades Planning Project, Cultural Resources Investigation of Everglades Agricultural Area Cell A-2, Palm Beach County, Florida within 30 calendar days of receipt of this letter. If you have any questions, please contact Ms. Cindy Thomas at (904) 232-1180 or via email Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Eric Samma

Chief, Environmental Branch

Thomas/CESAJ-PD-C/1180 McCullough/CESAJ-PD-EP Taplin/CESAJ-PD-C Summa/CESAJ-ED-E Acosta/CESAJ-PD-EP



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

2 6 JUL 2013

JACKSONVILLE, FLORIDA 32232-0019

REPLY TO

Planning and Policy Division Environmental Branch

Paul Backhouse, Ph.D, RPA Museum Director and Tribal Historic Preservation Officer 30290 Josie Billie Hwy, PMB 1004 Clewiston, Florida 33440

Dear Dr. Packhouse:

The U.S. Army Corps of Engineers (Corps) in partnership with the South Florida Water Management District (District) are conducting a feasibility study for the Central Everglades Planning (CEP) Project (DHR Project File No. 2012-01115). A component of the feasibility study will be the construction and operation of a 14,000 acre Flow Equalization Basin (FEB) within the Everglades Agricultural Area Cell A-2 (EAA A-2). For your records, in 2002 this parcel was consulted under the description Everglades Agricultural Area Storage Reservoirs Project Component A (DHR Project File No. 2002-09656).

Following consultation with your office on 2012 April 27 and subsequent review of previous research conducted in the area (Survey # 5610 and 4869), the Corps concluded that additional investigations would be required for the EAA A-2 FEB footprint. With the use of historic and modern aerials, the Corps identified vegetation anomalies within the project area, and contracted Southeastern Archaeological Research Inc. to conduct field investigations of those specific areas. As a result, three prehistoric midden sites (8PB16037, 8PB16039, and 8PB16040) and one historic agricultural work camp (8PB16038) were identified The Corps has determined that only prehistoric site 8PB16039 meets the criteria for eligibility for listing on the National Register of Historic Places.

For the CEPP feasibility study, only preliminary FEB design plans have been developed, which makes it impracticable for the Corps to make a final determination of effect on significant cultural resources at this time. Once Congress has authorized the CEP Project and the FEB enters into the detailed design phase, the Corps will make a final determination of effect for site 8PB16039. In addition, consultation will be needed to identify methods to address potential impacts to site 8PB106040, which contains human remains. Currently the EAA A-2 property is under lease to Florida Crystals by the District and actively cultivated with sugar cane.

-2-

As per request of your office, the draft report titled, Central Everglades planning Project, Cultural Resources Investigation of the Everglades Agricultural Area Cell A-2, Palm Beach County, Florida has been provided electronically for review.

In accordance with Section 106 of the *National Historic Preservation Act of 1966*, as amended, we seek your comments on the above referenced draft report within 30 calendar days of receipt of this letter. If you have any questions, please contact Ms. Cindy Thomas at (904) 232-1180 or via email Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Eric Summa

Chief, Environmental Branch

Copy Furnished:

Ann Mullins, Deputy THPO, Seminole Tribe of Florida Bradley Mueller, Compliance Supervisor, Seminole Tribe of Florida Alison Swing, Compliance Analyst, Seminole Tribe of Florida

> Thomas/CESAJ-PD-C/1180 McCullough/CESAJ-PD-EP Taplin/CESAJ-PD-C Summa/CESAJ-ED-E Acosta/CESAJ-PD-EP



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

Planning and Policy Division Environmental Branch

2 6 JUL 2013

Mr. Fred Dayhoff NAGPRA Representative, Tribal Consultant Miccosukee Tribe of Indians of Florida P.O. Box 440021 Miami, Florida 33144

Dear Mr. Dayhoff:

The U.S. Army Corps of Engineers (Corps) and Everglades National Park (ENP) conducted a Phase I Survey of a 5.38-mile corridor along the L-67 Extension (L-67 Ext.) as part of the Central Everglades Planning Project (CEPP) feasibility study from January 16 through January 18, 2013. The CEPP proposes to use material from the L-67 Ext. levee to backfill the associated borrow canal. The area of potential effect (APE) for this proposed feature of CEPP consists of a 46-meter wide corridor starting at Tamiami Tail (U.S. 41) running south 5.38-miles along the L-67 Ext.

With the use of historic and modern aerial photographs, and in consultation with ENP, the Corps concluded that areas with high probability for site locations did not exist within the APE. To verify these findings, the project archaeologist along with ENP staff visited specific locations and conducted surface inspections and subsurface testing. No cultural material over 50 years of age was observed. As a result, the Corps has determined that there will be no effect to historic properties within the APE of the proposed backfilling and levee degrading of the L-67 Ext.

In accordance with Section 106 of the National Historic Preservation Act of 1966, as amended, we ask for your comments on the enclosed draft report titled, Phase I Archeological Survey of a 5.38-Mile Corridor Along the L-67 Extension within 30 calendar days of receipt of this letter. If you have any questions, please contact Ms. Cindy Thomas at (904) 232-1180 or via email Cynthia.G.Thomas@usace.army.mil.

Chief, Environmental Branch



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

2 6 JUL 2013

REPLY TO ATTENTION O

Planning and Policy Division Environmental Branch

Paul Backhouse, Ph.D, RPA Museum Director and Tribal Historic Preservation Officer 30290 Josie Billie Hwy, PMB 1004 Clewiston, Florida 33440

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As per request of your office, the draft report titled, *Phase I Archeological Survey of a 5.38-Mile Corridor Along the L-67 Extension* has been provided electronically for review.

In accordance with Section 106 of the National Historic Preservation Act of 1966, as amended, we ask for your comments on the above referenced draft report within 30 calendar days of receipt of this letter. If you have any questions, please contact Ms. Cindy Thomas at (904) 232-1180 or via email Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Chies Environmental Branch

-2-

Copy Furnished: Anne Mullins, Deputy THPO, Seminole Tribe of Florida Bradley Mueller, Compliance Supervisor, Seminole Tribe of Florida Alison Swing, Compliance Analyst, Seminole Tribe of Florida



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO

1 3 AUG 2013

Planning and Policy Division Environmental Branch

Mr. Fred Dayhoff NAGPRA Representative, Tribal Consultant Miccosukee Tribe of Indians of Florida P.O. Box 440021 Miami. Florida 33144

Dear Mr. Dayhoff:

The U.S. Army Corps of Engineers (Corps) in partnership with the South Florida Water Management District (District) are conducting a feasibility study for the Central Everglades Planning Project (CEPP) (DHR Project File No. 2012-01115). For the feasibility study, Alternatives 1-4 included the construction of a spreader approximately 600 feet south and running parallel to the L-5 Levee in northern Water Conservation Area 3A (WCA-3A). In 2011 as part of the Modified Waters Delivery Project (MWD), Panamerican Consultants, Inc., conducted an Phase I survey within the spreader feature area resulting in report, Phase I Historical and Archaeological Survey of the Miami Canal within WCA-3A, Levee 4-5 Spreader Channel, and Levee 5 Spreader Channel Pump Station, Broward and Dade Counties (DHR Project File No.: 2012-2895/1A-32 Permit No.:1112.001). During the survey, sites 8BD4836, 8BD4837, and 8BD4838 were identified and recommended for further work to assess site significance. Therefore, in compliance with 36 CFR 800, the Corps conducted Phase II excavations of these three sites resulting in the enclosed draft report, Archaeological Testing of 8BD4836, 8BD4837, and 8BD4838, Addendum to Technical Report: Central Everglades Planning Project Water Conservation Areas 3A and 3B, Broward and Miami-Dade Counties, Florida (1A-32 Permit No.: 1213.002).

Based on research results, the Corps has determined that prehistoric sites 8BD4836, 8BD4837, 8BD4838 meet the criteria of eligibility for listing on the National Register of Historic Places under Criterion D. It should also be noted that each of these sites contains human remains and are therefore considered culturally sensitive to the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida.

During the analysis of each Alternative for the CEPP feasibility study, the proposed spreader feature along the L-5 Levee was removed from the project. Therefore, the Corps has determined that there will be no effect to sites 8BD4836 – 8BD4838.



REPLY TO ATTENTION O

1 3 AUG 2013

Planning and Policy Division Environmental Branch

Paul Backhouse, Ph.D, RPA Museum Director and Tribal Historic Preservation Officer 30290 Josie Billie Hwy, PMB 1004 Clewiston, Florida 33440

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In accordance with Section 106 of the *National Historic Preservation Act of 1966*, as amended, we ask for your comments on the above referenced draft report within 30 calendar days of receipt of this letter. If you have any questions, please contact Ms. Cindy Thomas at (904) 232-1180 or via email Cynthia.G.Thomas@usace.army.mil.

Sincerely.

Eric Summa

Chief, Environmental Branch

Copy Furnished:

Anne Mullins, Deputy THPO, Seminole Tribe of Florida Bradley Mueller, Compliance Supervisor, Seminole Tribe of Florida Alison Swing Compliance Analyst Seminole Tribe of Florida



Package Status



Package Contents

File(s)	Privacy Act Data
(2013-6-13) USACE to STOF CEPP WCA3 Addresdom Phase II Draft Rpt Lb pdf (152 KB)	No
WCA 3 Phase II Addonoum Revised Draft Report off (15 MB)	No

Levels (C. Cales of Fig.)

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New Recipient

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Document Transmittal Form

Date:	2013 Aug 21
то: сс:	Paul Backhouse, Museum Director and Tribal Historic Preservation Officer Anne Mullins Alison Swing Bradley Muller
Organization:	Seminole Tribe of Florida
Address:	30290 Josie Billie Hwy, PMB 1004 Clewiston, Florida 33440
Contact No.:	(863) 983-6549 Ext. 12244
Item(s) Sent:	Final report titled, "Technical Report: Performance Work Statement #W912EP-10-0018, Central Everglades Planning Project Cultural Resources Survey of Water Conservation Areas 3A and B, Broward and Miami-Dade Counties, Florida"
Sent By:	Cindy Thomas
Contact No.:	(904) 232-1180
Transmitted Via:	FTP File Share
Message:	As per request of your office, attached is an electronic copy of the final report.

SEMINOLE TRIBE OF FLORIDA TRIBAL HISTORIC PRESERVATION OFFICE

TRIBAL HISTORIC PRESERVATION OFFICE

SEMINOLE TRIBE OF FLORIDA AH-TAH-THI-KI MUSEUM

30290 JOSIE BILLIE HWY PMB 1004 CLEWISTON, FL 33440

PHONE: (863) 983-6549 FAX: (863) 902-1117



TRIBAL OFFICERS

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JAMES E. DILLIE
VICE CHAIRMAN
TONY SANCHEZ, JR.

SECRETARY
PRISCILLA D. SAYEN
TREASURER
MICHAEL D. TIGER

August 26, 2013

Cynthia Thomas Department of the Army Jacksonville District Corps of Engineers P.O. Box 4970 Jacksonville, Florida 32232

THPO#: 0012390

CONTRACT#: W912EP-13-F-0010

Subject: Central Everglades Planning Project, Cultural Resources Investigation of Everglades Agricultural Area Cell A-2, Palm Beach County, Florida

Dear Ms. Thomas.

The Seminole Tribe of Florida's Tribal Historic Preservation Office (STOF-THPO) received the CEPP A-2 cultural resource and assessment survey on July 26, 2013. The STOF-THPO has no objection to the proposed project at this time. However, the STOF-THPO would like to be informed if cultural resources that are potentially ancestral or historically relevant to the Seminole Tribe of Florida are inadvertently discovered at any time.

Thank you for the opportunity to review the information that has been sent to date regarding this project. Please reference *THPO-0012390* for any related issues.

Sincerely,

Geoffrey Wasson

Compliance Review Analyst Seminole Tribe of Florida 30290 Josie Billie Hwy, PMB 1004

Clewiston, Florida 33440



Document Transmittal Form

2013 Sept 21 Date: To: Paul Backhouse, Museum Director and Tribal Historic Preservation Officer Anne Mullins cc: Alison Swing Bradley Muller Geoff Wasson Organization: Seminole Tribe of Florida Address: 30290 Josie Billie Hwy, PMB 1004 Clewiston, Florida 33440 Contact No.: (863) 983-6549 Ext. 12244 Final report titled, "Central Everglades planning Project, Cultural Resources Item(s) Sent: Investigation of the Everglades Agricultural Area Cell A-2, Palm Beach County, Cindy Thomas Sent By: Contact No.: (904) 232-1180

Message:

Transmitted Via:

Fed-ex



Document Transmittal Form

Date: 2013 Sept 21

To: Paul Backhouse, Museum Director and Tribal Historic Preservation Officer

cc: Anne Mullins Alison Swing

Bradley Muller Geoff Wasson

Organization: Seminole Tribe of Florida

Address: 30290 Josie Billie Hwy, PMB 1004

Clewiston, Florida 33440

Contact No.: (863) 983-6549 Ext. 12244

Item(s) Sent: Final report titled, "Phase I Archeological Survey of a 5.38-Mile Corridor Along the

L-67 Extension, Miami-Dade County, Florida"

Sent By: Cindy Thomas
Contact No.: (904) 232-1180

Transmitted Via: Fed-ex

Message:



Document Transmittal Form

Date:	2013 Sept 21
To:	Paul Backhouse, Museum Director and Tribal Historic Preservation Officer Anne Mullins Alison Swing Bradley Muller Geoff Wasson
Organization:	Seminole Tribe of Florida
Address:	30290 Josie Billie Hwy, PMB 1004 Clewiston, Florida 33440
Contact No.:	(863) 983-6549 Ext. 12244
Item(s) Sent:	Final report titled, "Technical Report: Performance Work Statement #W912EP-10-0018, Central Everglades Planning Project Cultural Resources Survey of Water Conservation Areas 3A and B, Broward and Miami-Dade Counties, Florida"
Sent By:	Cindy Thomas
Contact No.:	(904) 232-1180
Transmitted Via:	$Fed ext{-}\mathrm{ex}$

Message:

SEMINOLE TRIBE OF FLORIDA

6300 STIRLING ROAD HOLLAWOOD, FLORIDA 33024 PHONE (954) 966-6300

> WEBSITE: http://www.semtribe.com



Tribal Officers:

JAMES E. BILLIE

TONY SANCHEZ, JR.

PRISCILLA D. SAYEN

MICHAEL D. TIGER

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers P.O. Box 4970 Jacksonville, Florida 32232-0019 ***See CEPP PIR/EIS Appendix C.3 for detailed responses to comments listed in this letter.

Dear Dr. Ehlinger:

We are writing to provide comments on the Central Everglades Planning Project (CEPP) Draft Integrated Project Implementation Report/Environmental Impact Statement (CEPP PIR/EIS) on behalf of the Seminole Tribe of Florida. The Seminole Tribe continues to support the protection of water for the natural system and appreciates the opportunity to comment on the CEPP PIR/EIS. The Seminole Tribe and the Army Corps of Engineers (USACE) have a long history of working together for the preservation and restoration of the Everglades, and the Seminole Tribe looks forward to continuing this relationship. Please accept for review the Seminole Tribe's combined comments addressing some general, water resource, environmental, and cultural resource issues for the CEPP PIR/EIS. Additional and more detailed comments are attached as Appendix A to this letter.

The Seminole Tribe is a long standing supporter of Everglades restoration, supporting the Restudy and CERP, including funding a cost share Critical Project with the USACE to bring water to the Big Cypress Seminole Indian Reservation and ultimately to historic flow-ways when conditions allow. This project is still in construction and is not yet achieving all of its intended benefits for wetland restoration on the Reservation, Addition lands, and the Big Cypress National Preserve.

As the Central Everglades Planning Project is being planned and moved forward the Seminole Tribe of Florida has continued to ask for inclusion of the Big Cypress Seminole Indian Reservation in the planning and study area to ensure no harm occurs to the Seminole Tribe's resources and more importantly to identify opportunities for CEPP to provide water to the Western Everglades for restoration purposes. The Seminole Tribe appreciates the anticipated benefits to WCA-3A where the Seminole Tribe has hunting, fishing, trapping and frogging rights and the modeling efforts that have been done to ensure that the Seminole Tribe's water rights continue to be delivered. However, the Seminole Tribe remains concerned that there is still no solution included to supply water to the Western Everglades for restoration of this area. There has not been enough attention paid to this area, including necessary monitoring and modeling to adequately assess

Dr. Gretchen Ehlinger U.S. Army Corps of Engineers October 15, 2013

impacts from CEPP to the area and to assess restoration alternatives. To that end the Seminole Tribe has brought to the attention of the USACE and the SFWMD from the beginning of the CEPP scoping effort its concerns about the restoration needs in the western Everglades. As a result your agency and the SFWMD as a part of the Task Force for South Florida Ecosystem Restoration (Task Force) has been meeting with the Seminole Tribe and other agencies to discuss these issues and to start work on a plan for the restoration of this important part of the Everglades.

The current draft EIS recognizes the meetings that are occurring among the Task Force member agencies and Tribes, including the Seminole Tribe of Florida, to discuss the issues the Tribe has raised, including restoration of the wetlands on the Tribe's Big Cypress Reservation, Big Cypress National Preserve, and Addition lands. However, due to the lack of data, monitoring, and modeling in this area the agencies are not yet at a point to make significant commitments to the Seminole Tribe of Florida for restoration of the area. The Seminole Tribe remains concerned about the lack of attention given to the Western Everglades. The Seminole Tribe's continued support of CEPP is based on the understanding that the USACE and the SFWMD will continue to work with the Seminole Tribe towards restoring and rehydrating the Western Everglades system including the Big Cypress Reservation, Big Cypress National Preserve, and the Addition lands. Specific comments on water resources are included in Appendix A to this letter.

The Seminole Tribe appreciates the USACE's consultation efforts with regard to cultural resources. 'The USACE's archaeologist Cynthia Thomas has made an admirable effort to consult with the Seminole Tribe early and often. This is the first project that the USACE has conducted early formal government to government consultation on cultural resources with the Seminole Tribe. This approach is greatly appreciated, and we are hopeful this approach will be taken with existing and future projects. During the consultation process, the Seminole Tribe expressed concerns about the level and quality of the archaeological work conducted by the USACE's consultants. The Seminole Tribe also expressed concerns over the numerous unknowns regarding cultural resources within the area of potential effect. In response to the unknowns, the USACE committed to the completion of a human remains policy that would be a binding agreement governing the treatment of burial resources and would serve as an adaptive management plan for the protection of burial resources. The development of such an agreement was first proposed by Colonel Pantano, which the Seminole Tribe supported. The Seminole Tribe is encouraged by the USACE's assurance to continue to honor Colonel Pantano's commitment to protect burial resources in a culturally sensitive manner. The human remains agreement has not yet been finalized; however, we look forward to continuing to work with the USACE on its completion. It is critically important that the District Engineer's recommendations for CEPP capture this commitment to develop this Agreement. Therefore, we respectfully request that the development of this human remains agreement be included in the District Engineer's recommendations in the PIR. Attached in Appendix A Dr. Gretchen Ehlinger U.S. Army Corps of Engineers October 15, 2013

are more detailed comments regarding cultural resources. We thank you in advance for your consideration of these comments and continuation of the consultation process.

Finally, please find attached a copy of an earlier commentary email with some attached handwritten comments to the draft PIR which was sent in on behalf of the Seminole Tribe to the USACE but not included in the comments section of the document. Please include these in Appendix B as part of the consultation record with the Seminole Tribe.

Again, the Seminole Tribe appreciates the opportunity to review and comment on the Central Everglades Planning Project *Draft Integrated Project Implementation Report/Environmental Impact Statement.* Thank you for your consideration of these comments.

Yours Sincerely,

Cherise Maples, Interim Director
Environmental Resource Management Department
6300 Stirling Road, Suite 109
Hollywood, FL 33024

Paul Backhouse, Tribal Historic Preservation Officer Tribal Historic Preservation Office 34725 West Boundary Road Clewiston, FL 33440

c: James E. Billie – Seminole Tribe of Florida
Danny Tommie – Seminole Tribe of Florida
Jim Shore – Seminole Tribe of Florida
Stephen Walker – Lewis, Longman & Walker, P.A.
Michelle Diffenderfer – Lewis, Longman & Walker, P.A.
James Charles – Lewis, Longman & Walker, P.A.
Cynthia Thomas – U.S. Army Corps of Engineers
Armando Ramirez – South Florida Water Management District

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Appendix A

This Appendix A contains the Seminole Tribe of Florida's additional, more detailed environmental, water resource and cultural resource comments on the CEPP PIR/EIS.

I. Seminole Tribe's Hunting, Fishing, Trapping, and Frogging Rights

In Section 2.6 of the Main Report, the document recognizes—the Seminole Tribe's hunting, fishing, and frogging rights in WCA 3A. The Seminole Tribe appreciates that the CEPP PIR/EIS recognizes these rights but requests that the word "trapping" be added to this list to more completely describe the Seminole Tribe's rights and match the language in the 1987 Seminole Tribe of Florida and State of Florida Settlement Agreement. Similarly, Section 5.3 states that subsistence activities for members of the Seminole Tribe include hunting and fishing; the Seminole Tribe requests that the terms "trapping" and "frogging" be added to this sentence.

Additionally, in Section 6.1.2.3, which is in the Tentatively Selected Plan section under Lands and Interests in Lands for Water Conservation Area 3A and 3B, the Seminole Tribe requests that language be added stating that the Seminole Tribe has customary usage rights in WCA 3A. The Seminole Tribe has legally protected interests in these lands that should be acknowledged here. It should also be acknowledged that this area holds significant cultural significance to the Seminole Tribe in addition to its customary usage rights.

II. Seminole Tribe of Florida

Annex B (Analyses Required by WRDA 2000) refers to the Seminole Tribe by a variety of different names, including but not limited to the "Seminole Indian Tribe" and the "Seminole Indian Tribe of Florida." The Seminole Tribe requests that this document be changed to refer to the Seminole Tribe consistently as "the Seminole Tribe of Florida."

III. Water Supply to the Seminole Tribe

In Table B-4 of Annex B, under (ii), the table contains the following sentence fragment: "Implementation of the project will not reduce the levels of service for flood protection within the areas affected by the project including". This sentence should be

completed to say "including the Seminole Tribe of Florida's Brighton and Big Cypress Reservations."

Also in Annex B, Section. B.3.1.3 states "the Seminole Indian Tribe also withdrawals groundwater ..." In addition to changing the document to refer to the Seminole Tribe as the Seminole Tribe of Florida, this sentence should change the word "withdrawals" to "withdraws."

Additionally, on page C-19 of Annex C (Draft Project Operating Manual) a sentence reads "S-630 would be located in the L-4 Canal, east of the existing L-4 Levee gap, to maintain existing water supply deliveries to the Seminole Tribe reservation ..." The Seminole Tribe appreciates that the document references maintaining the existing water supplies, but requests that this sentence specifically identify the Reservation so as to provide greater clarity.

The Seminole Tribe would also like to reiterate that it remains interested in continued discussions on assisting the USACE and SFWMD in their water management goals by taking excess water from Lake Okeechobee for storage on the Big Cypress Reservation, thereby helping restore the natural areas on the Reservation, as well as Big Cypress National Preserve and the Addition lands. This would be an achievable, positive step towards restoration of the Western Everglades and the Seminole Tribe continues to support CEPP with the understanding and expectation of further consultation on this matter with the USACE and the South Florida Water Management District.

IV. Modeling

The Seminole Tribe has continuously requested that the USACE consider discussing the possibility of sending water from Lake Okeechobee to the Big Cypress Reservation for storage, which would also benefit the ecological health of the Western Everglades. Although the modeling for CEPP has considered the Seminole Tribe's entitlement to water, it has not considered the Seminole Tribe's restoration needs for the Western Everglades area and the Tribe's potential ability to store excess water from Lake Okeechobee. The Seminole Tribe requests further modeling so the Seminole Tribe, the USACE and the SFWMD can better understand the quality and quantity of any water that might be delivered to determine if such a delivery would be mutually beneficial. Additionally, the modeling fails to address the Seminole Tribe's water needs for natural resources and customary usage. The modeling should consider the impact on the Seminole Tribe's Big Cypress Reservation and the western basins with regard to these concerns.

V. Cultural Resource Comments

The CEPP Area of Potential Effects ("APE") landscape is populated with over 20,000 known archaeological sites, including numerous burial sites. It is suspected that there are many more sites that have not yet been discovered. These sites (known and unknown), especially the burial sites, hold significant cultural/religious importance to the Seminole Tribe. The tree island landscape, which usually host these sites, form the fabric of the

Seminole Tribe's cultural identity. As the PIR/EIS acknowledges, there have been decades of unmitigated impacts to tribal cultural resources due to water control projects. The Seminole Tribe is encouraged by the commitments made by the USACE during the consultation process to move forward with treating these sites in a culturally sensitive manner. We respectfully request the PIR/EIS be amended to reflect those commitments as the Seminole Tribe has made significant efforts to be a partner in Everglades restoration, including CEPP.

The Seminole Tribe is also encouraged by the stated goals of restoring historic water levels/hydrological patterns and restoring/preserving tree islands and ridge/slough systems. Appropriately designing the CEPP project to achieve and monitor these goals will enhance the protection of cultural sites within the APE. Generally, most cultural sites are located on tree islands. Various studies have been conducted noting the significant impacts water control projects have had on tree islands (for example: http://www.sfwmd.gov/portal/page/portal/PG-GRP-SFWMD-WATERSHED/Tree-Island-Research413?project=1338&on=440;

http://www.sfwmd.gov/portal/page/portal/PG_GRP_SFWMD_WATERSHED/WCA_Historical_Tree_438?project=1354&ou=440). We are encouraged that the USACE is committed to restoring and preserving these environmentally and culturally significant resources.

A. District Engineer's Recommendations

During the government to government consultation process, the Seminole Tribe raised a significant concern about the USACE relying on insufficient data (unknowns) concerning cultural resources and impacts. The Seminole Tribe's comments were based on the concern that the lack of cultural resource data and potential errors in hydrological modeling could result in unintended impacts to burial resources. The USACE acknowledged the Seminole Tribe's concerns and a mutual commitment was made that the Jacksonville District Human Remains Policy (currently in development) would serve as the mechanism to address treatment of burial resources within the CEPP APE. This Policy would be formalized as a binding agreement between the USACE and the participating tribal governments. In essence, the Human Remains Policy would serve as a legal agreement: (1) to resolve impacts to burial resources under both Federal Trust Responsibility and Section 106 of the National Historic Preservation Act and (2) to be the basis for an adaptive management plan for cultural resources if unintended impacts occurred.

The purpose of the District Engineer's Recommendations in any PIR is to set forth all the necessary agreements with federal, state, Tribal and local governments. However, the current PIR does not include the development of the Jacksonville District Human Remains Policy, which will govern the CEPP project. We therefore request the following language be added to Section 8, the District Engineer's Recommendations: "The USACE is in the process of entering into a binding agreement with the Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida setting forth protocols for the appropriate treatment of burial resources throughout the Jacksonville District pursuant to the Federal Trust Responsibility and Section 106 of the National Historic Preservation Act. The USACE

shall enter into this binding agreement and it will govern the treatment of burial resources that are culturally/religiously significant to the participating tribal governments."

B. Compliance with the National Historic Preservation Act

The PIR/EIS repeatedly states that the project is in compliance with the National Historic Preservation ACT ("NHPA"); however, the USACE does not state how it is in compliance. It is important to note that the Advisory Council on Historic Preservation's regulations and case law is clear that Section 106, NHPA is not satisfied when an agreement to resolve adverse impacts is not finalized before completion of the National Environmental Policy Act documentations or before the Record of Decision. We understand that the USACE is in the process of developing a human remains policy that would resolve, pursuant to the Trust Responsibility and Section 106, impacts to burial resources. These burial resources may also be Section 106 properties in addition to being trust resources. We also understand that the USACE is in the process of completing studies pursuant to the Environmental Restoration Transitional Plan Programmatic Agreement in order to assess Section 106 impacts resulting from water control projects. However, at some point the USACE will need to develop a legally binding agreement to address Section 106 impacts that are not covered by the human remains policy. Until such time as the human remains policy and the Section 106 agreement are finalized, the USACE is in process of complying with the NHPA but is not yet in compliance. The Seminole Tribe is hopeful that the USACE will continue to honor its commitment to develop the human remains policy. The USACE acknowledges that compliance has not yet been achieved on page C.2.2-121 of Appendix C but erroneously provides it is in compliance in other sections. The acknowledgement that compliance is not yet achieved but ongoing should be consistently stated throughout the document.

C. Effects of the Alternatives and the Tentatively Selected Plan

The USACE outlines its assessment of direct and cumulative impacts to cultural resources both in the Main Report and in Appendix C. The Seminole Tribe is concerned that this evaluation does not reference avoidance and minimization efforts and implies that only mitigation (excavation of resources) will occur. In Sections 5.1.16 and 6.3.3 of the Main Report, the USACE simply notes that direct and cumulative impacts to cultural resources will be adverse and significant and that mitigation measures might lessen the impacts. There is absolutely no mention of the USACE undertaking avoidance or minimization efforts. The same is true in Sections C.2.1.17, C2.2.17, and C.2.2.19/Table2.2-16 (Appendix C); the PIR/EIS does not provide any discussion of avoidance or minimization of direct or cumulative impacts to cultural resources. Conversely, the USACE specifically provides it will undertake efforts to avoid, minimize and mitigate environmental impacts. Based on the exclusion of avoidance and minimization with regard to cultural resources, the Seminole Tribe is concerned that the USACE is not planning on considering or pursuing such measures. Such an approach is inconsistent with both the Federal Trust Responsibility and the NHPA. We respectfully request that the assessment of impacts include a discussion on avoidance and minimization.

ii. Further, it appears the assessment of impacts was only evaluated under the NHPA. It is important that the PIR/EIS evaluate impacts pursuant to the Federal Trust Responsibility as well. The federal government's trust obligation is more than just formal consultation and requires consideration and protection of cultural resources. The Advisory Council on Historic Preservation defined the federal trust obligation as "establish[ing] [a] fiduciary obligation to the tribes including duties to protect tribal lands and cultural and natural resources for the benefit of tribes and individual members/land owners." See ACHP Policy Statement Regarding the ACHP's Relationships with Indian Tribes, dated November 17, 2000. Similarly, the Department of Defense implemented its American Indian and Alaska Policy in October 1998 ("Department of Defense American Indian Policy"), recognizing the significance tribes "ascribe to certain natural resources and properties of traditional or customary religious or cultural importance."

The Department of Defense's American Indian Policy provides for enhancing tribal capabilities to "effectively protect and manage natural and cultural tribal trust resources whenever [Department of Defense] acts to carry out a program that may have the potential to significantly affect those tribal trust resources." By memorandum dated February 18, 1998, the USACE announced six basic tribal policy principles that must guide the USACE' decision-making when actions may affect tribes and trust resources: (1) tribal sovereignty; (2) trust responsibility; (3) government to government relations; (4) pre-decisional and honest consultation; (5) self reliance, capacity building and growth; and (6) natural and cultural resources. Specifically, the USACE stated that it "will act to fulfill obligations to preserve and protect trust resources" whereby trust resources include cultural resources. See Memorandum for Commanders, Major Subordinate Commands, and District Commands, dated February 18, 1998. In doing so, the USACE "will reach out...to involve Tribes in collaborative processes designed to ensure information exchange, consideration of disparate viewpoints before and during decision making, and utilize fair and impartial dispute resolution mechanisms." Id.

Therefore, the USACE owes the Seminole Tribe the obligation to preserve and protect the cultural resources within CEPP in addition to its obligations under the NHPA (NHPA does not supersede the Trust Responsibility). The Seminole Tribe respectfully requests the PIR/EIS include an evaluation of the impacts pursuant to the Trust Responsibility.

iii. Finally, the assessment of impacts is completely void of any discussion of the Jacksonville District Human Remains Policy, which will govern both the treatment of impacts to burial resources and set forth how impacts to such resources will be assessed. This agreement will be critical to the assessment and treatment of impacts to burial resources and should be included in the discussion of impacts to cultural resources.

D. Relationship to ERTP

The ERTP APE overlaps with the CEPP APE. Throughout the PIR/EIS the USACE references studies that will be required pursuant to the ERTP Programmatic Agreement. The ERTP Programmatic Agreement also provides that treatment of burial resources will be conducted consistent with the ERTP Human Remains Policy, which is a binding

agreement between the USACE and the Seminole Tribe (along with other state and federal parties). Until such time as the Jacksonville District Human Remains Policy is formalized, the ERTP Human Remains Policy remains the governing document for resolution of impacts to burial resources within the ERTP APE. The PIR/EIS should be revised to include the ERTP Human Remains Policy in the discussion of existing conditions/present actions and assessment of impacts.

E. Government to Government Consultation

The Seminole Tribe appreciates the USACE's early consultation efforts concerning cultural resources. This approach has helped create a mutual understanding and hopefully will help avoid future conflicts regarding cultural resources. We hope that the USACE will duplicate this approach for future projects. The Seminole Tribe does want to point out that the CEPP consultation process concerning cultural resources was not just conducted pursuant to the NHPA. The cornerstone of the federal government's relationship with Indian Country is the Federal Trust Responsibility. It is a special fiduciary obligation that carries with it the duty to act "with good faith and utter loyalty to the best interests" of federally recognized Indian Tribes such as the Seminole Tribe. The principal component of a federal agency's fiduciary trust obligation to Indian Tribes is the duty to formally consult with Indian Tribes (government-to-government) on actions that may impact their interests including historic properties. Although the NHPA includes a specific requirement for federal agencies to consult with Indian Tribes during the Section 106 review process, the duty to conduct government-to-government consultation is primarily a Trust obligation mandating federal agencies to act in a fiduciary capacity. In short, the NHPA requirements do not supersede the Federal Trust Responsibility.

F. Archaeological Data

As noted earlier, at this point there are more unknowns about cultural resources within the APE than there are known data. In part, this is due to the archaeological surveys being done during a very wet period which prevented the USACE contracted archaeologists from completing sufficient surveys. Less than one percent of the APE was selected for survey and out of that sample size only a few sites were dry enough to partially test. It is important to note that despite the self imposed limitations, the surveys discovered culturally significant material including burial resources at a high percentage rate. Therefore, it is highly likely that there are numerous unknown cultural sites within the APE. As the project moves forward, we respectfully request the USACE conduct more survey work during dry periods. We are also confident that if the USACE protects and restores the tree islands within the APE, that the likelihood of unintended impacts will be greatly lessened. However, sufficient monitoring will be necessary to determine impacts and to appropriately identify sites. The PIR/EIS is currently void of any discussion regarding archaeological monitoring. The Seminole Tribe suspects that archaeological monitoring can be done in conjunction with monitoring tree islands if the right protocols are developed. We respectfully request that the PIR/EIS be revised to note the limitations of the cultural resource data, link the protection and restoration of tree islands to the preservation of cultural resources, and include the commitment to develop archaeological monitoring protocols.

G. Existing Conditions of Native Americans

The Seminole Tribe appreciates that the USACE included a section concerning the existing conditions of the Native Americans. However, it is important to note that it may not be appropriate to rely on the Seminole Tribe's website or its Museum website as the source for this section. The Seminole Tribe's website serves several functions which include advertising for is commercial activities. It would be more appropriate to consult with the tribal governments in the development of this section versus taking information from websites.

Also, the Seminole Tribe's websites are not intended to represent the history or culture of the Miccosukee Tribe of Indians. Finally, the section is entitled "Existing Conditions of Native Americans;" however, the only language concerning the existing conditions is one sentence: "Today most Tribal members live within the confines of their reservations located in South Florida." All of the other language summarizes the Seminole Tribe's history and does not provide any information about the Tribe's existing conditions.

We therefore respectfully request the USACE consult with both Tribes and the Independent Native Americans living in the area to more accurately detail the existing conditions for Native Americans.

H. Compliance with Laws

In Section 7 of the Main Report, the USACE discusses how the project is in compliance with various legal obligations. While this section discusses compliance with cultural resource related federal statutes and orders, it is void of any discussion on compliance with the Federal Trust Responsibility. The Federal Trust Responsibility is a legal obligation that requires the USACE's compliance. Therefore, we respectfully request the USACE include a discussion on compliance with the Trust Responsibility regarding cultural resources and environmental resources.

I. Funding

The PIR/EIS does not provide any estimate on the cost of identifying, evaluating and treating cultural resources. Cost is briefly mentioned in a memorandum for the record that is included in the PIR/EIS. The Seminole Tribe requests that the USACE consult with its Tribal Historic Preservation Office on the appropriate cost estimates for cultural resources and that funding for cultural resources (under NHPA and Trust Responsibility) be a specific line item budget for the project.

We are aware that the Corps' Engineering Regulations provide for the cost of "data recovery" for the Federal sponsor to be no more than 1% of the total project cost. We believe that is a fair cost estimate for data recovery. We are also aware that the same Regulations provide that the following activities are not considered "data recovery:" (1) measures for avoidance, minimization and mitigation; and (2) activities to survey, test and evaluate archeological resources. We request further consultation with the Corps to determine what would be a reasonable cost estimate for the activities and measures that are not considered "data recovery."



November 20, 2013

SUBJECT: Seminole Tribe of Florida Letter Dated October 15, 2013 Providing Comments for the Central Everglades Planning Project Draft PIR/EIS

Paul Backhouse, Ph.D, RPA Museum Director and Tribal Historic Preservation Officer 30290 Josie Billie Hwy, PMB 1004 Clewiston, Florida 33440

Dear Dr. Backhouse:

The U.S. Army Corps of Engineers (Corps) would like to thank the Seminole Tribe of Florida for providing comments on the Central Everglades Planning Project (CEPP) draft integrated Project Implementation Report and Environmental Impact Statement (PIR/EIS). Our government-to-government consultation throughout the CEPP feasibility study has been invaluable throughout the process.

Currently, the CEPP team is working on responses to the comments provided in your letter and associated attachments titled *Appendix A* and *Appendix B*. All comments and responses will be recorded in Appendix C of the final CEPP PIR/EIS, which will go out for another government and public review in 2014.

The Corps recognizes the working history that it has with the Seminole Tribe of Florida in preservation and restoration projects and we look forward to strengthen our relationship today and into the future as we move toward that common goal. We would also like to reiterate our commitment to continuing consultation on and completion of the policy guidance memorandum to update and expand the 2008 CERP Policy on Human Remains that will apply to all Civil Works and Regulatory actions within the respective jurisdiction of these Jacksonville District Programs.

An electronic copy of this letter will be provided to recipients listed below. Please contact Ms. Cynthia Thomas at Cynthia.G.Thomas@usace.army.mil should you have any questions or concerns.

***See CEPP PIR/EIS
Appendix C.3 for detailed
responses to comments listed in
the letter referenced above.

Sincerely

Eric P. Summa

Chief, Environmental Branch

-2-

Electronic Copies Furnished:

Chairman James E. Billie, Seminole Tribe of Florida

Mr. Danny Tommie, Seminole Tribe of Florida

Ms. Cherise Maples, Seminole Tribe of Florida

Ms. Anne Mullins, Seminole Tribe of Florida

Mr. Bradley Muller, Seminole Tribe of Florida

Ms. Alison Swing, Seminole Tribe of Florida

Mr. Geoffry Wason, Seminole Tribe of Florida

Mr. Jim Shore, Lewis, Longman & Walker, P.A.

Ms. Michelle Diffenderfer, Lewis, Longman & Walker, P.A.

Ms. James Charles, Lewis, Longman & Walker, P.A.

Ms. Cynthia Thomas, U.S. Army Corps of Engineers

Mr. Armando Ramirez, South Florida Water Management District



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

November 20, 2013

SUBJECT: Seminole Tribe of Florida Comments Letter Dated October 15, 2013 for the Central Everglades Planning Project Draft PIR/EIS

Ms. Cherise Maples
Interim Director, Environmental Resource Management Department
Seminole Tribe of Florida
6300 Stirling Road, Suite 109
Hollywood, Florida 33024

Dear Ms. Maples:

The U.S. Army Corps of Engineers (Corps) would like to thank the Seminole Tribe of Florida for providing comments on the Central Everglades Planning Project (CEPP) draft integrated Project Implementation Report and Environmental Impact Statement (PIR/EIS). Our government-to-government consultation throughout the CEPP feasibility study has been invaluable.

Currently, the CEPP team is working on responses to the comments provided in the above referenced letter and attachments titled *Appendix A* and *Appendix B*. All comments and responses will be recorded in Appendix C of the final CEPP PIR/EIS, which will go out for another government and public review in 2014.

The Corps also recognizes the working history that it has with the Seminole Tribe of Florida in preservation and restoration projects and we look forward to strengthen our relationship today and into the future as we move toward that common goal.

An electronic copy of this letter will be provided to recipients listed below. Please feel free to contact Ms. Kimberley Taplin via email at Kimberley.A.Taplin@usace.army.mil should you have any questions or concerns.

**See CEPP PIR/EIS ppendix C.3 for detailed sponses to comments listed in referenced letter. Sincerely,

Eric P. Summa
Chief, Environmental Branch

-2-

Electronic Copy Furnished:

Chairman James E. Billie, Seminole Tribe of Florida

Mr. Danny Tommie, Seminole Tribe of Florida

Dr. Paul Backhouse, Seminole Tribe of Florida

Mr. Jim Shore, Lewis, Longman & Walker, P.A.

Ms. Michelle Diffenderfer, Lewis, Longman & Walker, P.A.

Ms. James Charles, Lewis, Longman & Walker, P.A.

Ms. Cynthia Thomas, U.S. Army Corps of Engineers

Mr. Armando Ramirez, South Florida Water Management District



Document Transmittal Form

Date: January 26, 2014

To: Dr. Paul Backhouse, Museum Director and Tribal Historic Preservation Officer

Organization: Seminole Tribe of Florida

Address: 30290 Josie Billie Hwy, PMB 1004

Clewiston, Florida 33440

Contact No.: (850) 245-6339

Cc: Anne Mullins

Bradley Mueller Alison Swing Geoffrey Wasson

Items Sent:

1. Corrections to final report titled, "Phase I Historical and Archaeological

Survey of the Miami Canal within WCA-3A, Levee 4-5 Spreader Channel, and Levee 5 Spreader Channel Pump Station, Broward and Dade Counties, Florida" DHR Project File No. 2012-2895 / 1A-32 Permit No.: 1112.001

2. Updated/New FMSF Forms

3. STOF to USACE response letter to review of above referenced report.

Sent By: Cynthia Thomas Contact No.: (904) 232-1180

Transmitted Via: FTP

Message: Enclosed is correction/clarification, and updated and/or new FMSF forms, that

should accompany the above referenced report.

Please contact me should you have any questions.

Appendix C.5 Cultural Resources

C.5.5 Written Correspondence: Public

January 31, 2014 USACE to Airboat Association of Florida CEPP Section 106 Consultation Follow-up Letter



January 31, 2014

SUBJECT: Central Everglades Planning Project Assessment of Effects to the Airboat Association of Florida and Section 106 Consultation, Miami-Dade County, Florida

Airboat Association of Florida 25400 SW 8th Street Miami, Florida 33196

Dear Officers and Members of the Airboat Association of Florida:

The U.S. Army Corps of Engineers (Corps), Jacksonville District, would like to extend our appreciation to you for meeting with Modified Waters Deliveries (Mod Waters) Project team members and the Central Everglades Planning Project (CEPP) team members January 18, 2014, and especially for your hospitality. During our meeting, we covered the following topics: 1. The status of CEPP 2. How CEPP could potentially impact the Traditional Cultural Property (TCP) Airboat Association of Florida (AAF) located at 25400 SW 8th Street 3. Once Congress has approved the project, how the Corps would continue consultation with the Airboat Association of Florida.

As required by federal law, Section 106 of the National Historic Preservation Act, we are required to notify you that we have initiated Section 106 consultation and are currently assessing our needs for information regarding historic and undocumented traditional cultural properties that might be affected by this project. Pursuant to Section 106 of the National Historic Preservation Act and implementing regulations, the Corps has conducted an extensive review of the Florida Master Site Files to identify recorded cultural resource sites within the project area. Those results included the identification of four sites recorded as or associated with the AAF. As you know, the AAF is recognized as a TCP, site number 8DA6768A, that is associated with the modern Gladesmen culture. There are also three historic buildings related to the TCP that are located on the property; the main clubhouse (site number 8DA6768), the care takers house (8DA11526) and the kitchen (8DA11527). As required by Section 106 of the Historic Preservation Act, we will need to consider how the project may impact these sites and consult with you on those effects. In the future, once the project has been authorized by Congress, the Corps will re-initiate consultation with you specifically for the CEPP.

In the interim, should you have any questions or concerns regarding the Airboat Association of Florida TCP and/or associated historic structures that may be impacted by the Mod Waters Project, please contact Dan Hughes at (904) 232-3028 or email at Daniel.B.Hughes@usace.army.mil. For concerns regarding the CEPP, please contact Cindy Thomas at (904) 232-1180 or by email: Cynthia.G.Thomas@usace.army.mil.

Sincerely,

Eric Summa

Chief, Environmental Branch

Appendix C.5 Cultural Resources

C.5.6 Background Information and the 2008 Policy Statement and Guidelines Regarding Human Remains and the Comprehensive Everglades Restoration Plan (CERP 2008 HR Policy)

The Corps has committed to and is currently developing the "Policy Guidance Memorandum Regarding American Indian Burial Resources for Civil Works and Regulatory Projects" which will be utilized as an update to, and extension of the CERP 2008 HR Policy. This document is an internal guidance document designed to consolidate and clarify existing Corps documents regarding the treatment of human remains pursuant to Section 106 of the National Historic Preservation Act and the Jacksonville District's Federal Trust Responsibilities for the state of Florida.



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS P.O. BOX 4970

JACKSONVILLE, FLORIDA 32232-0019

OCT 1 5 2012

REPLY TO ATTENTION OF

Planning and Policy Division Environmental Branch

Mr. Jim Shore Seminole Tribe of Florida General Council 6300 Stirling Road Hollywood, Florida 33024

Dear Mr. Shore:

On behalf of the U.S. Army Corps of Engineers (Corps), Jacksonville District, I would like to thank the Seminole Tribe of Florida for collaborating with the Corps on the development and ratification of the Everglades Restoration Transition Plan (ERTP) Programmatic Agreement and Human Remains Policy, and for the continued participation in ongoing formal consultation for the Central Everglades Planning Project (CEPP).

In your letter dated September 26, 2012, your office requested formal consultation concerning the development of a broader human remains protocol in connection with the ongoing consultation for CEPP. As you know, CEPP is an accelerated planning project, which requires a great deal of consultation and coordination to insure that all interested parties' concerns are considered. Currently, CEPP is covered under the Comprehensive Everglades Restoration Plan (CERP) Human Remains Policy that was signed in 2008. Due to the importance placed on human remains and burial resources and our Trust responsibilities, the Corps does not view it as appropriate for the human remains protocol covering all Jacksonville District civil works projects within Florida to be developed in connection with CEPP (which focuses on water and related resources in the south Florida region). A broader human remains policy covering all of the Corps of Engineers' civil works missions within the Jacksonville District's area of responsibility in Florida should be developed separately and independently of any project.

We would like to extend an invitation for you or a designated member(s) of your staff to discuss the path forward toward achieving our mutual goal of developing the human remains protocol. Mr. Daniel Hughes has been designated as the Jacksonville District staff archaeologist for the development of this document and will be initiating contact with you (or your designee) by November 16, 2012.

-2-

Please contact Mr. Hughes at (904) 232-3028 or via email:

Daniel.B.Hughes@usace.army.mil, or the Jacksonville District's Tribal Liaison, Ms. Natalie Garrett at (561) 472-8878 or via email: Natalie.S.Garrett@usace.army.mil with any concerns or questions you may have.

Sincerely,

Alan M. Dodd Colonel, U.S. Army District Commander

Copy Furnished:

Mr. James Charles, Lewis, Longman & Walker, P.A., 515 North Flagler Drive, Suite 1500 West Palm Beach, Florida 33401

Mr. Stephen Walker, Lewis, Longman & Walker, P.A., 515 North Flagler Drive, Suite 1500, West Palm Beach, Florida 33401

Ms. Patricia Power, Bose Public Affairs Group, 1120 20th Street, N.W., Washington, DC 20036

Mr. Danny Tommie, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Mr. Craig Tepper, Seminole Tribe of Florida, 6300 Stirling Road, Hollywood, Florida 33024

Mr. Paul N. Backhouse, Seminole Tribe of Florida, 30290 Josie Billie Hwy, PMB 1004, Clewiston, Florida 33440

Ms. Anne Mullins, Seminole Tribe of Florida, 30290 Josie Billie Hwy, PMB 1004, Clewiston, Florida 3340

Mr. Matthew Morrison, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, Florida 33406

Ms. Cynthia Thomas, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

Ms. Kimberley Taplin, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

Mr. Daniel Hughes, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville. Florida 32207

Mr. John Pax, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

Mr. Matt Donaldson, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

Ms. Natalie S. Garrett, U.S. Army Corps of Engineers, 701 San Marco Boulevard, Jacksonville, Florida 32207

SEMINOLE TRIBE OF FLORIDA

TELEPHONE (954) 967-3900

FAX (954) -967-3463

WEBSITE: www.seminoletribe.com

6300 STIRLING ROAD HOLLYWOOD, FLORIDA 33024



Tribal Officers:

JAMES E. BILLIE Chairman

TONY SANCHEZ, JR. Vice Chairman

PRISCILLA D. SAYEN Secretary

MICHAEL D. TIGER
Treasurer

VIA ELECTRONIC & REGULAR U.S. MAIL

September 26, 2012

Colonel Alan M. Dodd U.S. Army Corps of Engineers Jacksonville District Post Office Box 4970 Jacksonville, Florida 32331-0019

Re: Everglades Restoration Transition Plan

Dear Colonel Dodd:

I am pleased to inform you that on September 14, 2012, the Seminole Tribe of Florida's Tribal Council formally ratified both the Programmatic Agreement and Human Remains Policy for the Environmental Restoration Transition Plan ("ERTP"). Further, the Tribal Council has elected to participate in the Programmatic Agreement as a Signatory Party. Please find attached a copy of the Programmatic Agreement signed by Chairman James E. Billie. We appreciate the United States Army Corps of Engineers' ("Corps") efforts in cooperatively developing both documents with the Seminole Tribe. Burial resources hold significant cultural and religious importance to the Seminole Tribe. Therefore, we are especially pleased with the development of the Human Remains Policy for ERTP and the Corps' commitment to protect burial resources as trust resources.

This commitment was acknowledged by Colonel Pantano during our May 15, 2012, formal consultation. During that meeting, Colonel Pantano suggested and committed to the development of a Human Remains Policy for ERTP. Colonel Pantano also suggested and committed to developing, in consultation with the Seminole Tribe, a global human remains

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Colonel Alan M. Dodd U.S. Army Corps of Engineers September 10, 2012 Page 2

policy that would govern all Corps activities throughout Florida. This commitment by Colonel Pantano is reflected in the ERTP Programmatic Agreement. As Colonel Pantano suggested, the global policy would build off the ERTP Human Remains Policy and the 2008 Comprehensive Everglades Restoration Plan Human Remains Policy.

We look forward to the opportunity to collaborate with the Corps in fulfilling the Corps' commitment to the Seminole Tribe to develop a global human remains policy. Both the Corps and the Seminole Tribe will benefit from an agreed upon, streamlined process for the treatment of burial resources. Such a policy will ensure outcomes that timely further project goals in a culturally sensitive manner. The Corps staff has committed to developing a global policy by June 2013, which we believe is a reasonable timeframe.

We are currently conducting formal consultation with the Corps in connection with the Central Everglades Planning Project ("CEPP"). We appreciate the Corps involving the Seminole Tribe and considering cultural resource issues early on in the process. Considering the early stages of CEPP, we believe that CEPP presents an excellent opportunity for the timely development of the global human remains policy. It is important that both the Seminole Tribe and the Corps continue to act on the commitments made to ensure a cooperative approach to the treatment of burial resources and the progress made thus far continues. Therefore, we respectfully request, in connection with CEPP, the Corps initiate formal consultation with the Seminole Tribe to develop the global human remains policy. Thank you again for your time and consideration.

Jim Shore, General Counsel Seminole Tribe of Florida

cc:

Cynthia Thomas – U.S. Army Corps of Engineers
Matt Morrison – U.S. Army Corps of Engineers
Kim Taplin – U.S. Army Corps of Engineers
Daniel Hughes – U.S. Army Corps of Engineers
John Pax – U.S. Army Corps of Engineers
Matt Donaldson – U.S. Army Corps of Engineers
Natalie S. Garrett – U.S. Army Corps of Engineers
Danny Tommie – Seminole Tribe of Florida
Paul N. Backhouse – Seminole Tribe of Florida
Anne Mullins – Seminole Tribe of Florida
Craig Tepper – Seminole Tribe of Florida
Patricia Power – Bose Public Affairs Group
Stephen Walker – Lewis, Longman & Walker, P.A.
James Charles – Lewis, Longman & Walker, P.A.



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS

P.O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

JUN 2 9 2007

REPLY TO ATTENTION O

Planning Division Environmental Branch

Mr. Billy Cypress, Chairman Miccosukee Tribe of Indians of Florida Post Office Box 440021 Tamiami Station Miami, Florida 33144

Dear Chairman Cypress:

In August of 2006 at the Tribe's request, Mr. Grady Caulk, of my staff, along with representatives of the South Florida Water Management District met with Mr. Fred Dayhoff and Mr. Steve Terry to discuss concerns that the Miccosukee Tribe had about impacts that the Comprehensive Everglades Restoration Plan (CERP) would have on cultural resources. Specifically that intentional inundation of Native American burials is unacceptable, along with your requests that the Jacksonville District make every possible attempt to avoid project caused inundation of burial sites, and if that is not possible, that we protect these burials from inundation by relocating them.

In considering how to meet your request, the Jacksonville District reevaluated the policies to be used in treating burials. While it would be possible to continue to use Section 106 of the National Historic Preservation Act (NHPA) as the only means of protecting burials; our consultation with you suggested that protecting burials from this unacceptable impact is much more significant than the consideration required for archeological sites. In order to address this concern, we concluded that it is more appropriate to consider Native American burials "Protected Tribal Resources" in accordance with the Department of Defense American Indian and Alaska Native Policy (October 20, 1998). As such, the Jacksonville District considers our treatment of such burials to be a part of our Trust responsibility to federally recognized Sovereign Indian Nations. Therefore, protecting them from impacts falls under our Government-to-Government responsibilities which take precedence over Section 106 of the National Historic Preservation Act. By treating burials as part of our Trust relationship with Sovereign Indian Nations, the Jacksonville District believes that we can meet both our Trust and NHPA responsibilities while also complying with Florida Statutes. We will continue to use the Section 106 process and the guidelines that you have provided to facilitate this policy and to protect the archeological resources located in the sites.

Most of the CERP projects which may inundate burials are located on lands owned by the State of Florida, therefore the Native American Graves Protection and Repatriation Act does not apply as it is specific only to federally owned lands. Chapter 872, Florida Statutes provides for protection of Human Remains on public and private property in the State of Florida.

Every attempt will be made to avoid impacting sites with burials; however, because of the size of the Everglades Restoration project, unfortunately this will not be possible in all instances. Therefore, the Jacksonville District, with the State Archeologist and the South Florida Water Management District, are developing guidelines and procedures to honor your request. For projects where inundation is not an effect, we propose to continue our policy of expeditiously reburying Human Remains as close as possible to their original location.

Your comments or concerns regarding the use of Federal Trust responsibilities instead of Section 106 as a means of protecting burials from project impacts would be appreciated. We were applying your request to protect burials to specific projects when we made the determination that burials in archeological sites were more appropriately "Protected Tribal Resources" and not archeological resources. We are currently working on two projects where avoidance of all burials does not appear to be possible. We will be requesting project specific comments, in the near future, under separate correspondence, in accordance with guidelines you have provided. If there are any questions, please contact Mr. Grady Caulk at 904-232-1786 or e-mail at grady.h.caulk@saj02.usace.army.mil.

Sincerely,

Paul L. Grosskruger Colonel, U.S. Army District Commander

Enclosure

Copy Furnished:

Mr. Steve Terry, Cultural Representative, Miccosukee Tribe of Indians of Florida, Post Office Box 440021, Tamiami Station, Miami, Florida 33144



DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

JUN 29 7007

REPLY TO ATTENTION O

Planning Division Environmental Branch

Mr. Mitchell Cypress, Tribal Council Chairman Seminole Tribe of Florida 6300 Stirling Road Hollywood, Florida 33024

Dear Chairman Cypress:

In the course of the U.S. Army Corps of Engineers (Corps), Jacksonville District's ongoing tribal consultations regarding projects that are a part of the Comprehensive Everglades Restoration Plan (CERP), the Miccosukee Tribe of Indians of Florida has stated that intentional inundation of burials is unacceptable. The Tribe specifically requests that the Corps and the South Florida Water Management District (SFWMD) make every possible attempt to avoid project-caused inundation of burial sites. When avoidance is not possible, the Tribe requests that we protect these burials from inundation by relocating them (see the enclosed Miccosukee Position statement).

In considering how to meet the Miccosukee's request, the Jacksonville District, in collaboration with the SFWMD and the State Archeologist, reevaluated the policies to be used in treating burials in CERP project areas. While it would be possible to continue to use Section 106 of the National Historic Preservation Act (NHPA) as the only means of protecting burials, consultation with the Miccosukee Tribe clarified that their concerns regarding the protection of burials are much more significant than the consideration required for archeological sites. In order to address this concern we concluded that it is more appropriate to consider burials as "Protected Tribal Resources" in accordance with the Department of Defense American Indian and Alaska Native Policy (October 20, 1998). As such, the Jacksonville District considers our treatment of burials to be a part of our Trust responsibility to federally recognized Sovereign Indian Nations. Therefore, protecting burials from impacts falls under our Government-to-Government responsibilities, which take precedence over Section 106 of the National Historic Preservation Act. By treating burials as part of our Trust relationship with Sovereign Indian Nations, the Jacksonville District believes that we can meet both our Trust and NHPA responsibilities while also complying with Florida Statutes. We will continue to use the Section 106 process to facilitate this policy and to protect the archeological resources located in the sites.

Most of the CERP projects which may inundate burials are located on lands owned by the State of Florida, therefore the Native American Graves Protections and Repatriation Act does not apply as it is specific only to federally owned lands. Chapter 872, Florida Statutes administered by the State Archeologist provides for protection of Human Remains on public and private property in the State of Florida.

Every attempt will be made to avoid impacting sites with burials; however, because of the size of the Everglades Restoration project this will not be possible in all instances. Therefore, the Jacksonville District, with the State Archeologist and the SFWMD are developing guidelines and procedures to honor the Miccosukee's request. For projects where inundation is not an effect, we propose to continue our policy of expeditiously reburying human remains as close as possible to their original location.

Your comments or concerns regarding the use of Federal Trust responsibilities instead of Section 106 as a means of protecting burials from project impacts would be appreciated. Any comments, concerns, and guidance you may have about the implementation of the Miccosukee Tribe's request would also be appreciated. We are currently working on two CERP projects where avoidance of all burials does not appear to be possible. We will be requesting project specific comments, in the near future, under separate correspondence. The Jacksonville District is available to meet to discuss the Miccosukee Tribe's request and its implementation if desired. If there are any questions or to schedule a meeting, please contact Mr. Grady Caulk at 904-232-1786 or e-mail at grady.h.caulk@saj02.usace.army.mil.

Sincerely,

Paul L. Grosskruger Colonel, U.S. Army District Commander

Enclosures

Copy Furnished:

Mr. Willard Steele, Tribal Historic Preservation Officer, Seminole Tribe of Florida, Ah Tha Thi Ki Museum, HC-61 Post Office Box 21-A, Clewiston, Florida 33440

Department of Defense American Indian and Alaska Native Policy

PREAMBLE

These principles establish the Department of Defense's (DoD) American Indian and Alaska Native Policy for interacting and working with federally-recognized American Indian and Alaska Native governments (hereinafter referred to as "tribes")(a). These principles are based on tribal input, federal policy, treaties, and federal statutes. The DoD policy supports tribal self-governance and government-to-government relations between the federal government and tribes. Although these principles are intended to provide general guidance to DoD Components on issues affecting tribes² (b), DoD personnel must consider the unique qualities of individual tribes when applying these principles, particularly at the installation level. These principles recognize the importance of increasing understanding and addressing tribal concerns, past, present, and future. These concerns should be addressed prior to reaching decisions on matters that may have the potential to significantly affect (c&d) protected tribal resources, tribal rights, or Indian lands³(e).

- 1 As defined by most current Department of Interior/Bureau of Indian Affairs list of tribal entities published in Federal Register pursuant to Section 104 of the Federally Recognized Indian Tribe List Act.
- ²This policy is not intended to, and does not, grant, expand, create, or diminish any legally enforceable rights, benefits, or trust responsibilities, substantive or procedural, not otherwise granted or created under existing law. Nor shall this policy be construed to alter, amend, repeal, interpret, or modify tribal sovereignty, any treaty rights, or other rights of any Indian tribes, or to preempt, modify, or limit the exercise of any such rights.
- 3 Definition of Key Terms:
 - Protected Tribal Resources: Those natural resources and properties of traditional or customary religious or cultural importance, either on
 or off Indian lands, retained by, or reserved by or for, Indian tribes through treaties, statutes, judicial decisions, or executive orders, including
 tribal trust resources.
 - Tribal Rights: Those rights legally accruing to a tribe or tribes by virtue of inherent sovereign authority, unextinguished aboriginal title, treaty, statute, judicial decisions, executive order or agreement, and that give rise to legally enforceable remedies.
 - Indian Lands (f): Any lands title to which is either: 1) held in trust by the United States for the benefit of any Indian tribe or individual; or
 2) held by any Indian tribe or individual subject to restrictions by the United States against alienation.
- (a) This policy governs Department interactions with federally recognized tribes only; it does not govern interaction with unrecognized tribes, state-recognized tribes, Alaska Native village or regional corporations, or Native Hawaiians. [In Alaska, as a practical matter, the Department may need to discuss proposed actions with Alaska Native village or regional corporations simply because these corporate entities own and manage much of the land in Alaska. In such cases, the relationship between the Department and the corporate entity is a business relationship between the government and a private party, not a government-to-government relationship.]
- (b) This policy neither enlarges nor diminishes the Department's legal obligations with respect to federally recognized tribes, nor does the policy provide an independent cause of action upon which the Department may be sued.
- (c) The phrase "may have the potential to significantly affect," which appears throughout the policy, establishes the general threshold or "trigger" for consultation to be used unless a statute or other legal obligation specifically establishes a lower threshold for consultation. It is expected that DoD personnel will informally contact interested tribes whenever there is any real possibility that tribal interests may be affected by proposed DoD actions, but that continued, more formal consultation will be necessary only when it appears, from initial discussions with a tribe, that tribal interests will be significantly affected by the proposed action. In other words, the policy anticipates a two-step process designed first, to overcome the fact that, as non-Indians, we may not always recognize the effect our actions may have on tribal interests unless we ask; and second, to permit DoD to proceed without the need for further consultation unless potentially significant consequences are identified during this initial discussion. [Note: The word "significantly" is used in this policy in its ordinary dictionary sense; i.e., as a synonym for "material" or "important." It is should not be interpreted in the NEPA or Council on Environmental Quality NEPA Regulations sense, as that would set a higher threshold for consultation than is intended.]
- (d) There is no obligation to consult with tribes in advance of a proposal that "may have the potential to significantly affect" tribal interests. In other words, the obligation to consult with tribes under this policy is eventor proposal-driven. Nonetheless, as a matter of discretion, general consultation may be desirable where an installation expects to have frequent interaction with a tribe and wishes to establish a stand-by protocol for consultation absent the pressures associated with a particular proposal.

- (e) The phrase "protected tribal resources, tribal rights, or Indian lands," which appears throughout the policy, works in conjunction with the "may have the potential to significantly affect" trigger to determine when DoD must consult with tribes. Generally speaking, DoD must consult with tribes only when its proposed actions may have the potential to significantly affect Indian lands, treaty rights, or other tribal interests protected by statute, regulation, or executive order. [Note: Some statutes may establish a lower threshold for consultation than the default threshold established in this policy (see, e.g., 16 U.S.C. 470a(d)(6)(B)); in such cases, the Department must consult with tribes in accordance with the statutory requirements.] [Note also, that individual rural residents of Alaska, including both Natives and non-Natives, generally have a right to engage in nonwasteful subsistence uses of fish, wildlife, and other wild, renewable resources on public lands in Alaska. While this right is not a *tribal* right *per se*, installations nonetheless may find it both convenient and beneficial to consult with the appropriate Alaska Native entity whenever a proposed DoD action may have the potential to adversely affect the subsistence activities of several members of the same village or tribe.]
- (f) With respect to Alaska, the term "Indian Lands" does not include lands held by Alaska Native Corporations or lands conveyed in fee to an Indian Reorganization Act entity or traditional village council; the term may include village-owned townsite lands (depending on the particular status of the village itself and upon a fact-specific inquiry into whether the area at issue qualifies as a dependent Indian community), and individual Native townsite lots and Native allotments (so long as these properties remain in either restricted fee or trust allotment form).

I. TRUST RESPONSIBILITIES

DoD will meet its responsibilities to tribes. These responsibilities are derived from:

- Federal trust doctrine (g) (i.e., the trust obligation of the United States government to the tribes);
- Treaties, Executive Orders, Agreements, Statutes, and other obligations between the United States government and tribes, to include:
 - Federal statutes (e.g., Native American Graves Protection and Repatriation Act, American Indian Religious Freedom Act, National Environmental Policy Act, National Historic Preservation Act, Alaska National Interest Lands Conservation Act, Alaskan Native Claims Settlement Act, and Archeological Resources Protection Act); and
 - Other federal policies (e.g., Executive Order 12898, "Environmental Justice"; Executive Order 13007,
 "Indian Sacred Sites"; Executive Order 13021 "Tribal Colleges and Universities"; "Executive
 Memorandum: Government to Government Relations with Native American Tribal Governments,"
 dated 29 April 1994; and Executive Order 13084, "Consultation and Coordination with Indian Tribal
 Governments").

DoD will annually review the status of relations with tribes to ensure that DoD is:

- · Fulfilling its federal responsibilities; and
- Addressing tribal concerns related to protected tribal resources, tribal rights, or Indian lands.

(g) Under the federal trust doctrine, the United States—and individual agencies of the federal government—owe a fiduciary duty to Indian tribes. The nature of that duty depends on the underlying substantive laws (i.e., treaties, statutes, agreements) creating the duty. Where agency actions may affect Indian lands or off-reservation treaty rights, the trust duty includes a substantive duty to protect these lands and treaty rights "to the fullest extent possible." Otherwise, unless the law imposes a specific duty on the federal government with respect to Indians, the trust responsibility may be discharged by the agency's compliance with general statutes and regulations not specifically aimed at protecting Indian tribes.

II. GOVERNMENT TO GOVERNMENT RELATIONS

Build stable and enduring relationships with tribes by:

- Communicating with tribes on a government-to-government basis (h) in recognition of their sovereignty;
- Requiring meaningful communication addressing tribal concerns between tribes and military installations at both the tribal leadership-to-installation commander and the tribal staff-to-installation staff levels (i);
- Establishing a senior level tribal liaison in the Office of the Secretary of Defense (j) and other appropriate
 points of contact within DoD to ensure that tribal inquiries are channeled to appropriate officials within DoD
 and responded to in a timely manner;
- Providing, to the extent permitted by DoD authorities and procedures, information concerning opportunities
 available to tribes to: 1) compete for contracts, subcontracts, and grants, and participate in cooperative
 agreements; 2) benefit from education and training; 3) obtain employment; and 4) obtain surplus equipment
 and property;
- Assessing, through consultation, the effect of proposed DoD actions that may have the potential to significantly affect protected tribal resources, tribal rights, and Indian lands before decisions are made (k);
- Taking appropriate steps to remove any procedural or regulatory impediments to DoD working directly and
 effectively with tribes on activities that may have the potential to significantly affect protected tribal resources,
 tribal rights, and Indian lands; and
- Working with other federal agencies, in consultation with tribes, to minimize duplicative requests (I) for information from tribes.
- (h) Indian tribes have been called "domestic dependent nations".-i.e., nations within a nation. As such, consultation with tribes on a "government-to-government basis" requires a high degree of formality (see attached sample framework for consultation). Unless--or until--a tribal-specific protocol for consultation has been developed, formal contact with a tribe should be made by the installation commander, and should be directed to the tribe's senior elected official, usually referred to as the tribal chair, governor, or president.
- (i) Although communication with tribes on a government-to-government basis demands attention--at least initially--at a relatively senior level of command, the goal should be to develop mutually acceptable protocols or procedures that will allow most day-to-day liaison and work with interested tribes to be accomplished on a staff-to-staff basis. Senior commanders and tribal leaders should be kept apprised of this day-to-day interaction, but-note these protocols are in place--need act personally and directly only when requested to do so by the other party.
- (j) Although the Deputy Under Secretary of Defense for Environmental Security will provide tribes with a senior-level liaison to ensure tribal inquires are promptly addressed, DoD officials at all levels of command should strive to make it easier for tribes to receive timely answers to the questions they may have concerning DoD activities that may affect them. One way to accomplish this at the installation level could be to designate and announce a principal point-of-contact for the receipt of tribal inquiries.
- (k) The single most important element of consultation is to initiate the dialogue with potentially affected tribes before decisions affecting tribal interests are made. Meaningful consultation demands that the information obtained from tribes be given particular, though not necessarily dispositive, consideration; this can happen only if tribal input is solicited early enough in the planning process that it may actually influence the decision to be made. Consultation is worth very little if decisions have already been made.
- (1) Keep in mind that many tribes have relatively few enrolled members and only a limited staff to respond to your requests. This being the case, coordinate your requests for information with other federal agencies whenever doing so may reduce the administrative burden on the affected tribe.

III. CONSULTATION

Fully integrate (down to staff officers at the installation level) the principle and practice of meaningful consultation and communication with tribes by:

- Recognizing that there exists a unique and distinctive political relationship between the United States
 and the tribes that mandates that, whenever DoD actions may have the potential to significantly affect
 protected tribal resources, tribal rights, or Indian lands, DoD must provide affected tribes an
 opportunity to participate in the decision-making process that will ensure these tribal interests are
 given due consideration in a manner consistent with tribal sovereign authority (m);
- Consulting consistent with government-to-government relations and in accordance with protocols
 mutually agreed to (n) by the particular tribe and DoD, including necessary dispute resolution
 processes;
- Providing timely notice to, and consulting with, tribal governments prior to taking any actions that
 may have the potential to significantly affect protected tribal resources, tribal rights, or Indian lands;
- Consulting in good faith throughout the decision-making process (o); and
- Developing and maintaining effective communication, coordination, and cooperation with tribes, especially at the tribal leadership-to-installation commander level and the tribal staff-to-installation staff levels.
- (m) What constitutes "due consideration...consistent with tribal sovereignty" depends, in part, on the underlying law that dictates that consultation take place. "Consultation" can vary from simple notice of a pending action to negotiation to obtain the tribe's formal consent to a proposed action (the absence of which may be enough to stop that action from proceeding). The attached table summarizes the specific legal obligations owed tribes under the trust doctrine and various statutes. In general, two principles should be kept in mind. One, tribes are not just another interested party; where tribal interests may be significantly affected, tribes must be regarded as separate from the general public for the purposes of consultation. Second, in most cases, consultation should include an invitation to potentially affected tribes to provide information to DoD concerning actions that may significantly affect tribal interests; that information should be given special consideration. In some instances, e.g., where Indian lands or treaty rights may be significantly and adversely affected, tribal rights may take precedence and dictate that DoD protect these rights to the fullest extent possible.
- (n) The are over 570 federally recognized Indian tribes, each with its own distinctive cultural identity. Just as is true with foreign nations, a "one-size-fits-all" prescription for consultation with Indian tribes is neither appropriate nor possible. Instead, installations should expect to have to negotiate a mutually agreeable protocol with each separate tribe with which it must consult. While certain elements can be expected be a part of any such protocol, installations should be mindful of the fact that tribes all have different ways of controlling property, harvesting natural resources, revering the environment, and even conducting consultations.
- (o) Keep it in mind that the consultation trigger contemplates a two-step process. Consultation need continue throughout the decision-making process only for those proposals that have the potential to *significantly* affect tribal interests.

IV. NATURAL AND CULTURAL RESOURCES PROTECTION

Recognize and respect the significance tribes ascribe to certain natural resources and properties of traditional or customary religious or cultural importance by:

- Undertaking DoD actions and managing DoD lands consistent with the conservation of protected tribal resources and in recognition of Indian treaty rights to fish, hunt, and gather resources at both onand off-reservation locations (p);
- Enhancing, to the extent permitted by law, tribal capabilities to effectively protect and manage natural
 and cultural tribal trust resources (q) whenever DoD acts to carry out a program that may have the
 potential to significantly affect those tribal trust resources;
- Accommodating, to the extent practicable and consistent with military training, security, and readiness
 requirements, tribal member access to sacred and off-reservation treaty fishing, hunting, and gathering
 sites located on military installations; and
- Developing tribal specific protocols to protect (r), to the maximum extent practicable and consistent
 with the Freedom of Information Act, Privacy Act, National Historic Preservation Act, and
 Archeological Resources Protection Act, tribal information regarding protected tribal resources that
 has been disclosed to, or collected by, the DoD.
- (p) Fulfillment of the trust responsibility demands that federal agencies protect the lands and habitats that support the resources upon which the meaningful exercise of tribal hunting, fishing, and gathering rights depend. This includes actions on non-Indian-owned lands (including DoD installations) that may affect Indian lands or off-reservation treaty rights (such as reserved rights to hunt, fish, or gather on treaty-ceded lands or "usual and accustomed" grounds and stations). In addition, in Alaska, DoD must endeavor to protect the continued viability of all wild, renewable resources in order to minimize, to the extent possible, the adverse effects of its actions on rural residents who depend upon subsistence uses of such renewable resources.
- (q) Where a proposed DoD action may have the potential to significantly affect tribal *trust* resources (i.e., Indian lands or treaty rights to certain resources) or DoD has been given express statutory authority (e.g., \$8050 of the Department of Defense Appropriations Act of FY 1999), DoD may have limited authority to help develop and enhance the affected tribe's capacity to better manage these resources. This, however, is an area fraught with fiscal law pitfalls; consequently, installations are advised to consult with legal counsel before committing to expend appropriated funds for this purpose.
- (r) Presently, legal authority to protect tribal information concerning sacred sites is very limited. Section 9 of the Archeological Resources Protection Act (16 U.S.C. § 470hh) and Section 304 of the National Historic Preservation Act (16 U.S.C. § 470w-3) may provide some protection from a request for such information, but may not be enough to guarantee confidentiality in the face of a Freedom of Information Act request for disclosure—especially the NHPA provision. A written consultation agreement with a tribe may be appropriate in some circumstances and permit an installation to withhold disclosure under FOIA Exemption 5, but even this tactic may prove to be ineffective. As a consequence, installations should be careful not overstate their ability to keep sensitive tribal information confidential.

U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Policy Statement and Guidelines Regarding Human Remains and the Comprehensive Everglades Restoration Plan (CERP)

Executive Summary

The Comprehensive Everglades Restoration Plan (CERP), a joint effort by the U.S. Army Corps of Engineers (USACE), the South Florida Water Management District (SFWMD), and other local sponsors, has the potential to affect archaeological sites that contain human remains. The Army Corps of Engineers and the South Florida Water Management District are committed to managing any such remains in full compliance with all applicable Federal and State laws and legislation. Additionally, both agencies understand the sensitivity of this issue to Native American groups and wish, to as full an extent as possible, to treat such remains in a manner that is sensitive to Tribal concerns. The Miccosukee Tribe in particular has made clear specific concerns that they have regarding human remains, their treatment and what may or may not be acceptable to them. The Miccosukee Tribe's proposal is described in detail later in this document and is included in Appendix A. As such, this document provides policies and guidelines that are intended to guide future archaeological work associated with CERP in ways that are both legal and sensitive to Tribal concerns while still maximizing overall project goals.

The overarching concept that underlies both the Federal and State response to the Miccosukee Tribe's request is the concept of consultation. The Federal Trust Doctrine with regard to Indian Tribes, which guides federal actions in this instance, is based on consultation as a way to come to a culturally sensitive outcome when a federal action may affect a tribal resource. State actions are in this case guided by Section 872.05, Florida Statutes which also prescribes consultation as a way to come to final resolution on how human remains encountered in the course of a project should be treated. Both the Federal process and the State process are based on consultation as a way to come to final agreement on how human remains and culturally sensitive sites are to be treated and as such, the consultation process can be entered into jointly by Federal and State actors in order to come to final resolution on any human remains that may be affected by joint Federal-State projects. While other laws, policies, regulations and Executive Orders may come into play as the Tribe's request is addressed, the process is fundamentally based on consultation as directed by the Federal Trust Doctrine and Section 872.05, Florida Statutes and as such will be implemented as a joint, seamless, Federal-State process.

Because the CERP is a joint partnership between Federal and State agencies, several Federal and State laws concerning cultural resources, specifically human remains can provide guidance on implementing the Tribe's proposal. This legislation and policy includes:

- The American Indian and Alaska Native Policy, issued by the Department of Defense
- Section 106 of the National Historic Preservation Act.
- The Advisory Council on Historic Preservation's (ACHP) Policy Statement Regarding Treatment of Burial Sites, Human Remains, and Funerary Objects
- Executive Order No. 13175: Consultation and Coordination With Indian Tribal Governments
- Section 872.05, Florida Statutes: Unmarked Human Burials
- Federal Trust Responsibility

During ongoing consultation for Acceler8 Projects (now known as the SFWMD's Everglades Ecosystem Restoration effort), the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida expressed their wishes for how archaeological sites, particularly sites with human remains, should be treated during the course of project implementation. Additionally, the State Archaeologist, responsible for upholding Section 872.05, Florida Statutes, has provided input on how unmarked human burials should be handled during project implementation. As both of these views have merit under applicable legislation and share much common ground, the following document provides an attempt at a balanced approach between the two.

Throughout this document, consultation between all interested parties, including the USACE, the SFWMD, Native Tribes, the State Archaeologist, and the State Historic Preservation Officer (SHPO), is stressed. Similarly, although specific guidelines are provided herein, they are not to be taken as rigid steps that must be followed in every situation. All interested parties are in agreement that each archaeological site is unique, each site will require consultation between interested parties and, unique procedures may be required for each site.

Introduction

The Comprehensive Everglades Restoration Plan (CERP) has the potential to affect archaeological sites that contain human remains. The Army Corps of Engineers (USACE) and the South Florida Water Management District (SFWMD) are committed to managing any such remains in full compliance with all applicable Federal and State laws and legislation. Additionally, both agencies understand the sensitivity of this issue to Native American groups and wish, to as full an extent as possible, to treat such remains in a manner that is sensitive to Tribal concerns. As such, this document provides policies and guidelines that are intended to guide future archaeological research associated with CERP in ways that are both legal and sensitive to Tribal concerns while still maximizing overall project goals. While different policy and legal frameworks exist that guide Federal and State actions, the SFWMD and USACE, in working towards a common goal, will be guided by the overarching concept of consultation. Federal actions, while having to be cognizant of a variety of federal laws and regulations, will be primarily guided by Federal Trust Doctrine towards Indian Tribes. State actions will be primarily guided by Florida Statutes including Section 872.05, Florida Statutes: Unmarked Human Burials. Within their respective legal and policy contexts, Federal and State actors will endeavor to implement the Miccosukee Tribe's proposal on how archeological sites containing human remains should be treated.

Federal Trust Responsibility and How It Applies to the CERP Project Areas

The main goal behind the Trust Responsibility and all federal policy, statutes, and regulations dealing with Indian tribes is to encourage consultation with Indian tribes in an attempt to recognize and respect their sovereignty and their heritage. As a federal agency we begin each cultural resources study by consulting with the potentially affected tribes to meet our Trust Responsibility and to fulfill the requirements of Section 106 of NHPA. Ongoing consultation with the tribes has produced guidelines for dealing with sites encountered in the CERP project areas that is unopposed by all consulting parties, upholding the spirit of the Trust Responsibility and complying with all federal and state laws.

Federal Trust Responsibility

The unique legal relationship that exists between Indian tribes and the United States government was born out of the first treaties entered into by the government and the tribes. "In these treaties, the United States pledged to 'protect' Indian tribes, thereby establishing one of the bases for the federal Trust responsibility in our government-to-government relations with Indian tribes" (DOJ, 1995). In the past this protection referred to usurpation of tribal lands and resources by states and encroachment by settlers. Today the protection refers to "environmental and other threats to tribal lands, resources, burials, and traditional cultural practices" (Van Ness, 2004). The Supreme Court, Congress, and Executive Orders have, over the years reaffirmed this Trust Doctrine or Trust

Responsibility and directed federal agencies to honor this policy in all activities that may impact tribal resources, tribal rights, and Indian lands.

Why the Trust Responsibility Applies Over Other Federal Legislation or Policy

It is under this broad umbrella of Trust Responsibility and the specific guidance to the Department of Defense to honor this responsibility in the American Indian and Alaska Native Policy that the USACE wishes to clarify policy to address the presence of Human Remains in archeological sites in the CERP project areas. Other federal regulations, Executive Orders, Departmental policies, and State laws can also apply. In certain circumstances, however, utilization of the Trust Responsibility can be a more direct, efficient, and mutually beneficial route to resolve these issues.

Specifically, the Miccosukee tribe has stated:

No more archaeological digs are necessary. What is in the ground should remain in the ground, after it has been determined that it is there through shovel tests or other means. It is in the ground for reasons unknown to us. . . . These unknown reasons are enough for the Tribe to state that all sites, from kitchen middens to lithic scatter sites to village sites to burial sites, are significant and should remain undisturbed. This applies to sites that have been disturbed and may not be culturally intact enough to be eligible for listing in the National Register of Historic Places (Dayhoff and Terry, 112).

Presented at the Thinking About Significance Workshop, 2001.

- Executive Order No. 13007: Indian Sacred Sites, like NAGPRA, applies only to Federal lands.
- Executive Order No. 13175: Consultation and Coordination with Indian Tribal Governments, Nov. 6, 2000 is not limited to Federal lands. It is meant to "establish regular and meaningful consultation and collaboration with tribal officials in the development of Federal policies that have tribal implications." It directs federal agencies to consult with Indian tribal governments in cases where policymaking may have an effect on tribes and states "where possible, defer to Indian tribes to establish standards".
- Section 106 of the National Historic Preservation Act refers specifically to
 properties listed or eligible for listing in the National Register of Historic Places.
 Standard techniques to determine eligibility would require a level of study of the
 site that is in opposition to the Miccosukee's above-stated position and their
 position on the previously named Acceler8 Everglades Restoration Projects in
 particular that all sites are significant and should remain undisturbed and that any
 archaeological data recovery is not appropriate.

- The Advisory Council on Historic Preservation's Policy Statement Regarding Treatment of Burial Sites, Human Remains, and Funerary Objects, Principle 1 Discussion directs, "Through consultation with descendants, culturally affiliated groups, descendant communities and other parties, federal agencies should discuss and reach agreement on what constitutes respectful treatment."
- The American Indian and Alaska Native Policy issued by the Department of Defense reiterates the Federal Trust Responsibility and is intended to provide general guidance to DoD Components on issues affecting tribes and to recognize the importance of increasing understanding and addressing tribal concerns, past, present, and future. These concerns should be addressed prior to reaching decisions on matters that may have the potential to significantly affect protected tribal resources, tribal rights, or Indian lands.

When these conditions arise involving a site in a CERP project area, application of the federal government's Trust Responsibility is an appropriate and effective means to resolve issues regarding the disposition of Human Remains in a way that has been agreed upon by all consulting parties.

Relevant Cultural Resources Legislation

The CERP consists of many distinct projects, some of which are now being implemented mainly by the SFWMD. All CERP projects are joint efforts between a Federal agency, the USACE, and a State agency, the SFWMD. Both agencies are providing funding and services for the overall CERP. Additionally, the State of Florida is providing the majority of the land upon which each CERP project will be undertaken.

While the implementation of this guidance is based on the overarching concept of consultation, both under Federal Trust Doctrine and Section 872.05, Florida Statutes, several Federal and State laws concerning cultural resources and human remains can also provide guidance. Specific legislation beyond the Federal Trust Responsibility is described in this section and includes brief summaries of the following and how they specifically relate to these projects:

- The American Indian and Alaska Native Policy issued by the Department of Defense
- Section 106 of the National Historic Preservation Act
- The Advisory Council on Historic Preservation's (ACHP) Policy Statement Regarding Treatment of Burial Sites, Human Remains, and Funerary Objects
- Native American Graves Protection and Repatriation Act
- Executive Order No. 13007: Indian Sacred Sites
- Executive Order No. 13175: Consultation and Coordination With Indian Tribal Governments
- Section 872.05, Florida Statutes: Unmarked Human Burials, and Chapter 1A-44
 Procedures for Reporting and Determining Jurisdiction Over Unmarked Human
 Burials

Note: The properties that are being and will be impacted by the CERP projects are mostly in State, rather than Federal, ownership. As such, the Native American Graves Protection and Repatriation Act (NAGPRA) and Executive Order No. 13007: Indian Sacred Sites are applicable only in the limited areas where CERP projects have potential affect on Federal or Indian Trust lands.

Department of Defense: American Indian and Alaska Native Policy

The American Indian and Alaska Native Policy was issued by the Department of Defense on October 20, 1998. The purpose of the policy is to establish principles for interacting and working with Federally recognized American Indian and Alaska Native governments, to address tribal concerns prior to reaching decisions on matters that may have the potential to significantly affect protected tribal resources, tribal rights, or Indian lands. Protected tribal resources includes "those natural resources and properties of traditional or customary religious or cultural importance, either on or off Indian lands, retained by, or reserved by or for, Indian tribes through treaties, statutes, judicial decisions, or executive orders, including tribal trust resources." Specifically the policy states that Department of Defense Components are to "recognize and respect the significance tribes ascribe to certain natural resources and properties of traditional or customary religious or cultural importance by...enhancing, to the extent permitted by law, tribal capabilities to effectively protect and manage natural and cultural tribal trust resources whenever DoD acts to carry out a program that may have the potential to significantly affect those tribal trust resources."

Section 106 of the National Historic Preservation Act (NHPA)

Section 106 of the NHPA requires Federal agencies to consider the effects of their actions on historic properties. The purpose of Section 106 is to take into account effects of federal actions on historic properties and afford the Advisory Council on Historic Preservation reasonable opportunity to comment on those actions. The goal of consultation under Section 106 is to identify and assess historic properties and to seek ways to avoid, minimize, or mitigate for any adverse effects likely to be caused by federal actions. As the USACE is considered the lead agency for all CERP projects, the USACE is obliged to comply with the requirements of Section 106 of the NHPA.

The USACE and the SFWMD are conducting on-going consultation with the Miccosukee Tribe of Indians of Florida as well as the Seminole Tribe of Florida concerning the CERP. The Miccosukee have issued a position paper outlining their concerns about the project (Appendix A). The Seminole Tribe of Florida has offered no objection to the Miccosukee position.

Since the Miccosukee issued their position paper, Steve Terry, the Tribe's Section 106 coordinator, has met with members of the SFWMD and clarified some of the points included therein. During a field meeting on February 2, 2007, Terry emphatically re-

stressed points 1-6 and 9-10 of the paper. However, he modified points 8 and 9 by stating the following:

- He stated that he does not have the time or the inclination to provide professional archaeologists with specific methodologies for archaeological projects.
- Instead, he stated that he trusts archaeologists to be able to determine, based on their testing and all of the years of archaeological research that have been conducted in southern Florida to date, whether sites are likely to contain human remains or not.
- He stated that he does not believe that additional investigations need to be conducted to try to identify human remains in faunal bone middens if the archaeologists believe that such sites represent areas of habitation and not ceremonial areas.

The Advisory Council on Historic Preservation's (ACHP) Policy Statement Regarding Treatment of Burial Sites, Human Remains, and Funerary Objects

The ACHP has recently issued a final policy statement designed to guide Federal agencies in making decisions about the identification and treatment of burial sites, human remains, and funerary objects encountered in the Section 106 process. While the ACHP's policy can be instructive and may aid in the implementation of this guidance document, it only applies under the auspices of Section 106. As previously stated, the Miccosukee Tribe's proposal is being jointly implemented by Federal and State actors under the overarching concept of consultation, as guided by the Federal Trust Doctrine and Section 872.05, Florida Statutes. The ACHP policy statement lists eight principles that should be followed. The principles are:

- **Principle 1:** Participants in the Section 106 process should treat all burial sites, human remains and funerary objects with dignity and respect.
- **Principle 2:** Only through consultation, which is the early and meaningful exchange of information, can a Federal agency make an informed and defensible decision about the treatment of burial sites, human remains and funerary objects.
- **Principle 3:** Native Americans are descendants of original occupants of this country. Accordingly, in making decisions, Federal agencies should be informed by and utilize the special expertise of Indian tribes and Native Hawaiian organizations in the documentation and treatment of their ancestors.
- **Principle 4:** Burial sites, human remains and funerary objects should not be knowingly disturbed unless absolutely necessary, and only after the Federal agency has consulted and fully considered avoidance of impact and whether it is feasible to preserve them in place.
- **Principle 5**: When human remains or funerary objects must be disinterred, they should be removed carefully, respectfully and in a manner developed in consultation.

Principle 6: The Federal agency is ultimately responsible for making decisions regarding avoidance of impact to or treatment of burial sites, human remains and funerary objects. In reaching its decisions, the Federal agency must comply with applicable Federal, Tribal, State, or local laws.

Principle 7: Through consultation, Federal agencies should develop and implement plans for the treatment of burial sites, human remains and functary objects that may be inadvertently discovered.

Principle 8: In cases where the disposition of human remains and funerary objects is not legally prescribed, Federal agencies should proceed following a hierarchy that begins with the rights of lineal descendants, and if none, then the descendant community, which may include Indian tribes and Native Hawaiian organizations.

Several important points concerning this policy statement should be made. First, this policy only provides general principles and perspectives that should be considered during Section 106 consultation. Accordingly, the policy does not recommend a specific outcome from the consultation process.

Additionally, and consistent with Section 106, the policy is technically applicable only to burial sites that are or are part of a historic property. Again, "historic properties" are properties that are listed or are eligible for listing, in the NRHP.

Finally, and perhaps most importantly for this discussion, the policy is designed as a guide in "instances where Federal or State law **does not prescribe a course of action"** (sic.). As described later in this section, Florida State law does prescribe a course of action that is applicable to any unmarked human burials that may be encountered in archaeological sites during the course of the CERP. This course of action also directs that consultation with the Tribes will be utilized to determine the disposition of human remains. Therefore the ACHP's policy serves as a clarification of the common goals shared by the Federal and State agencies when human remains are encountered.

Native American Graves Protection and Repatriation Act

The Native American Graves Protection and Repatriation Act is a Federal law passed in 1990. NAGPRA provides a process for museums and Federal agencies to return certain Native American cultural items -- human remains, funerary objects, sacred objects, or objects of cultural patrimony -- to lineal descendants, and culturally affiliated Indian tribes and Native Hawaiian organizations. NAGPRA includes provisions for unclaimed and culturally unidentifiable Native American cultural items, intentional and inadvertent discovery of Native American cultural items on Federal and tribal lands, and penalties for noncompliance and illegal trafficking. In addition, NAGPRA authorizes Federal grants to Indian tribes, Native Hawaiian organizations, and museums to assist with the documentation and repatriation of Native American cultural items, and establishes the Native American Graves Protection and Repatriation Review Committee to monitor the NAGPRA process and facilitate the resolution of disputes that may arise concerning repatriation under NAGPRA.

As stated in the note above, current CERP projects have no features on federal lands; therefore, NAGPRA would not apply. It is included in this discussion only as a reminder that some CERP projects may have indirect impacts on nearby federal lands such as Tribal reservations held in Trust and the Everglades National Park, and the law must not be excluded from consideration.

Executive Order No. 13007: Indian Sacred Sites

Executive Order No. 13007: Indian Sacred Sites, was issued by President William J. Clinton on May 24, 1996. This Executive Order states that Federal land management agencies, such as the USACE, should, to the extent practicable, avoid adversely affecting the physical integrity of sites on Federal lands held sacred by Indian tribes. This Executive Order may be relevant to the CERP in that archaeological sites containing human remains might be considered sacred by the Miccosukee and Seminole Tribes but it is limited in that it only applies to lands owned or managed by the Federal government.

Executive Order No. 13175: Consultation and Coordination With Indian Tribal Governments

Executive Order No. 13175: Consultation and Coordination with Indian Tribal Governments, was issued by President William J. Clinton on November 6, 2000. This Executive Order was created to establish regular and meaningful consultation and collaboration with tribal officials in the development of Federal policies that have tribal implications, to strengthen the United States government-to-government relationships with Indian tribes, and to reduce the imposition of unfunded mandates upon Indian tribes.

Section 872.05, Florida Statutes: Unmarked Human Burials

Chapter 872, Florida Statutes ("Offenses Concerning Dead Bodies and Graves") decrees that all human burials and human skeletal remains be accorded equal treatment and respect based upon common human dignity without reference to ethnic origin, cultural background or religious affiliation. This applies to all human burials, human skeletal remains and associated burial artifacts, found upon or within any public or private land in the state, including submerged lands. The law mandates that all types of human burial sites, including Indian mounds, "lost" historic and prehistoric cemeteries, and other unmarked burials, are responsibly treated once they are discovered.

Briefly, Section 872.05, Florida Statutes the subsection of 872, Florida Statutes that deals specifically with unmarked human burials, states that the State Archaeologist may assume jurisdiction over all unmarked human remains more than 75 years in age. In such cases, the State Archaeologist takes the lead in determining appropriate options and treatments for the remains. If the remains in question are Native American, the State Archaeologist determines appropriate options and treatments in consultation with designated representatives of the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida. It is through this latter consultation process that the State,

acting in concert with the Federal government, will implement the Tribe's proposal. Complementing Section 872.05, Florida Statutes, is Chapter 1A-44, Florida Administrative Code: Procedures for Reporting and Determining Jurisdiction Over Unmarked Human Burials. Chapter 1A-44, F.A.C., lists guidelines to follow should unmarked human remains be found in the field.

Summary

In summary, several Federal and State laws concerning cultural resources, specifically human remains, are relevant to the CERP. The USACE and the SFWMD have consulted with and received comments from the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida. These tribes have indicated that human remains are of particular importance to them. Additionally, the Miccosukee Tribe of Florida has stated that it is their strong preference that such remains are not disturbed by any man-made activities, including periodic inundation associated with water management activities. The Seminole Tribe of Florida has stated that it defers to the Miccosukee Tribe of Florida with regard to the inundation of human remains as a result of CERP projects.

Obviously, the USACE, the SFWMD, Native American Section 106 specialists and/or Tribal Historic Preservation Officers (THPO's), and the State Archaeologist, will need to work closely with each other throughout all stages of the CERP. A close consultative effort between each of these parties will be needed to ensure compliance with all applicable laws, the respectful and sensitive treatment of all human remains identified, and a successful implementation of the projects in question.

Archaeological Procedures to Minimize Impacts on Human Remains associated with the CERP

The preceding discussion illustrates that there are several legitimate stakeholders, including Native American groups and the State Archaeologist, who may be concerned with human remains identified during the course of the CERP. Further, any such remains can be considered under several different pieces of Federal and State legislation. For instance, both Section 106 of the National Historic Preservation Act (NHPA) and Section 872.05, Florida Statutes are directly relevant to a discussion concerning any human remains identified during the CERP. Thus, any document designed to provide procedures for the minimization of impacts to human remains identified during the course of the CERP must strike a balance between these two laws, at the very least, so that both Federal and State requirements can be met.

During the course of Section 106 consultation, Native American groups, including the Miccosukee Tribe of Indians of Florida and the Seminole Tribe of Florida, have informed the USACE of their preferences for the identification and treatment of human remains identified during archaeological research associated with the CERP. Additionally, Section 872.05, Florida Statutes outlines an existing set of procedures that must also be followed upon the identification of human remains during a project such as the CERP. As such, the procedures outlined below take into account the concerns of Native Americans as well as the State Archaeologist for any human remains that may be identified during the course of the CERP. It is believed that these procedures consist of a "good faith effort" upon the part of the USACE, the SFWMD, and their respective contractors to manage this issue in a way that is both legal and sensitive to Tribal concerns while still maximizing the overall goals of the CERP.

It must be stressed that all interested parties, including the USACE, the SFWMD, the Miccosukee Tribe of Indians of Florida, the Seminole Tribe of Florida, the State Archaeologist, and the State Historic Preservation Officer (SHPO) recognize that each archaeological site is unique. Thus, any and all archaeological procedures listed in this document must be viewed only as general guidelines rather than a rigid set of procedures that must be followed in all circumstances. It is fully expected that all interested parties will review, adopt, and amend these procedures as necessary throughout the course of the CERP.

Background Research

Background research is completed early in the planning stage of an archaeological project in order to assess the following items: to identify any previously documented cultural resources within a given project area, to conduct initial consultation with the State Historic Preservation Officer (SHPO), and to assist in properly planning the initial survey, the Phase I cultural resources survey. During archaeological projects associated with the CERP, project consultation with the Miccosukee Tribe of Indians of Florida and

the Seminole Tribe of Florida should be conducted at the same time that project consultation is initiated with the SHPO. This will provide the Tribes an opportunity to easily identify areas that are known to have significant resources. There should be increased sensitivity during the planning process to identify sites recorded as containing unmarked human remains; and sites that have a potential to contain unmarked human remains in an attempt to avoid all possible impacts. However, it must be acknowledged and understood that the tribal representatives may legitimately refuse to discuss matters involving possible burial locations, burial practices, etc. based on traditional cultural beliefs concerning these subjects.

Phase I Survey

The main goal of a Phase I is to identify any historic properties that may be eligible for listing in the NRHP. In the USACE planning process, a Phase I cultural resources survey is the appropriate method to identify potential NRHP eligible sites. Conducted early in the process, this method allows project planners the ability to reconsider project design to avoid potentially eligible or eligible sites. In addition to this goal, any Phase I archaeological survey associated with the CERP should include the following procedures in order to better address the issue of human remains at identified archaeological sites:

- All archaeologically positive shovel tests should be recorded and marked in such a way that they can be found on return field trips
- Any obvious human remains identified in the field should be left in-situ
- Follow procedures in Section 872.05, F.S. and Rule 1A-44, F.A.C. The State Archaeologist's Office should be contacted immediately if human remains are identified in the field or during laboratory analysis (Figure 1)
- Expedited laboratory identification of faunal bone to determine if human remains are present
- A Tribal consultation section in the cultural resources survey report
- Serious consideration of avoidance and minimization of impacts, including inundation, to archaeological sites known to contain human remains, and if possible, faunal bone.

Handling Human Remains Found in Lab

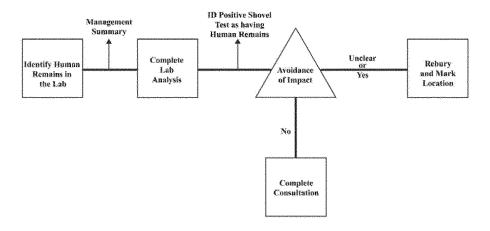


Figure 1: Procedure for Handling Human Remains Found in the Lab

Phase II Evaluations

The ultimate goal of standard Phase II archaeological investigations is to be able to determine if the tested site is eligible for listing on the National Register of Historic Places (NRHP) and if needed, to develop mitigation measures. To this end, Phase II archaeological investigations are used to determine a site's contents, condition (integrity), and extent (both horizontally and vertically).

"Phase II-like" investigations should also be utilized during CERP projects for archaeological sites that are known to contain human bone. In such cases, Phase II-like investigations would be used to identify the general extent of any human remains located at a site, regardless of that site's eligibility for listing in the NRHP (Figure 2).

It is important to stress that all options to avoid impacts, including inundation, to sites should be explored before Phase II or Phase II-like investigations are conducted on sites identified during the course of the CERP. Phase II and Phase II-like investigations should be considered only if project impacts to sites cannot be avoided.

Overall Process for Implementing Miccosukee Tribe's Proposal

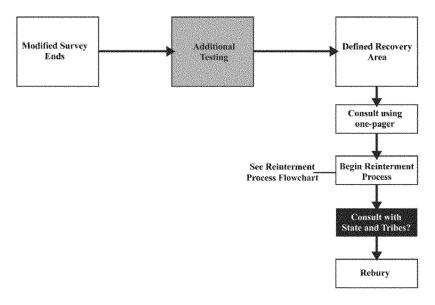


Figure 2: Overall Process for Implementing Miccosukee Tribe's Proposal

For CERP projects, the following procedures and considerations should be included in Phase II and Phase II-like archaeological investigations in order to better address the issue of human remains at tested archaeological sites:

- Phase II or Phase II-like investigations should only be conducted if impacts, including inundation, to the archaeological site cannot be avoided
- Phase II or Phase II-like investigations must not be conducted until the State Archaeologist and SHPO are fully consulted
- Shovel tests should be excavated at a minimum of 10 meter intervals in areas of known or suspected human bone in order to adequately bound such features
- All bone collections recovered from all shovel tests must be analyzed for the possible presence of human bone by a specialist in identifying human remains
- All work must cease within five meters of a location where articulated human remains are encountered until further consultation with the State Archaeologist
- All archaeologically positive shovel tests should be recorded and marked in such a way that they can be found on return field trips
- An archaeologically positive excavation unit (1x1 m or larger) should be marked in the field with rebar in at least one of the unit corners

- Curation of human remains should be avoided if possible; to this end, a temporary field laboratory may be useful
- All recovered human remains and associated artifacts found in the same unit should be reburied in the designated reburial area
- If no reburial area has been established yet and impacts to an archaeological site
 containing human bone are not expected to occur for a year or more, all human
 material recovered should be reburied in the excavation units from which they
 were recovered until a reburial area is established
- If plans to impact a site containing human bone are changed to include avoidance of impacts, including inundation, to the site, all recovered human material should be reburied in the locations of their initial recovery
- Avoidance options should be reevaluated based on the results of the Phase II or Phase II-like investigations

It has been suggested by the State Archaeologist that the preceding procedures be tried at a site as an experiment. If this approach is successful at locating unmarked human burials, then it could be incorporated more generally as an approach to other sites that will be impacted by CERP projects. If it is unsuccessful, then it should not be continued.

Phase III Excavations/Mitigation for Human Remains

For the purposes of the CERP, mitigation for human remains must serve to protect human remains from inundation. If the effect to burials is other than inundation additional site and project specific consultation should be conducted prior to applying the procedures. As such, mitigation efforts must consist of making a "good faith effort" to locate, remove, and relocate all human remains and associated artifacts to an area close-by that will not be affected by the project. Such mitigation efforts for human remains should be made regardless of the NRHP eligibility for the site from which the remains are known.

It is recognized that NRHP-listed or eligible sites may be impacted by CERP projects. These sites may be the subject of Phase III mitigation excavations designed to comply with Section 106 requirements. Such excavations would be focused on recovering important scientific data from the site or sites before unavoidable project impacts.

For efficiency and the best use of resources, the relocation of human remains during CERP projects may be conducted at the same time as archeological data recovery. However, it should be recognized that there may be an inherent conflict between the two activities. If Phase III excavations to recover important archaeological data and to locate and remove human remains are planned for the same site, careful planning and consultation with the State Archaeologist and SHPO are required.

It is important to stress again that each site is unique. As such, it is impossible to develop specific procedures to address all of the issues that may be involved in a mitigation effort. The procedures listed below provide only a very general outline of the minimal methods that would be part of a human remains relocation plan for CERP projects. The overall goal should be to make a good faith effort to relocate human remains to areas that will not be impacted by the project. The particular methods used to achieve this goal should

be flexible and always open to change. Again, the State Archaeologist has suggested the following procedures be tried at a site as an experiment. If this approach is successful at locating unmarked human burials, then it could be incorporated more generally as an approach to other sites that will be impacted by CERP projects. If it is unsuccessful, then it should not be continued.

- Mitigation excavations to remove human remains and associated artifacts are not essential unless and until it is absolutely necessary to protect them from inundation or other unacceptable project impacts
- Extensive testing to locate all potential human remains should not be undertaken until Phase III Mitigation effort
- In areas of a site identified during previous testing to contain human remains, shovel tests should be excavated at 10 meter intervals or closer
- Postholes should be excavated at 2 to 3 meter intervals between the shovel tests
- The location of all shovel tests, postholes, and excavation units should be marked in the field with pin flags, wooden stakes, flagging tape, and/or spray paint
- Shovel or posthole test units for which human bone are identified should be expanded with a 1x1 meter test unit centered over the initial shovel/posthole (see Figure 3)
- Such a 1x1 test unit will be excavated in quadrants and expanded by 50 cm around any quadrant with identified human remains until there is a 50 cm-wide strip with no identified human remains (Figure 4)
- The orientation of any articulated remains and associated artifacts will be recorded so that they can be reburied in the same relationship
- All bone collections recovered from all shovel tests must be analyzed for the
 possible presence of human bone by a specialist in identifying human remains
- Curation of human remains should be avoided if possible; to this end, a temporary field laboratory may be useful
- All recovered human remains and associated artifacts should be reburied in the designated reburial area as soon as possible
- Potential reburial areas should be considered High Probability Zones and surveyed as such to ensure that no other cultural resource site will be disturbed by the relocation
- The designated reburial area should be as close as possible to the archaeological site
- The designated reburial area must be approved by the State Archaeologist prior to the commencement of mitigation excavations to recover human remains
- The designated reburial area must have long-term management measures in place to protect it from future disturbances; these measures should be designed in consultation with the State Archaeologist
- If an area of fill or spoil is used as the reburial area, it must be stabilized prior to use

- Prior to mitigation excavations to locate, remove, and rebury human remains and associated artifacts, all field crew involved should undergo cultural awareness training
- The designated reburial location should be treated as confidential information

Reinterment Process

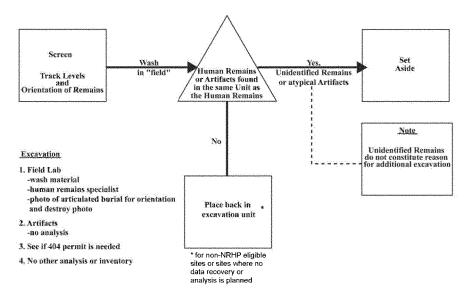


Figure 3: Reinterment Process

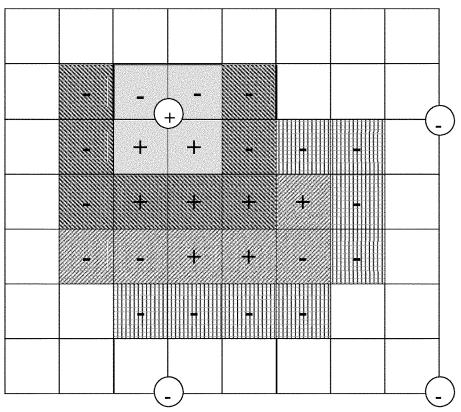


Figure 4: Hypothetical excavation procedure of a 1x1 on a positive shovel test. Each square is 50x50 cm.

+ Human remains present	0
- No Human remains	Second expansion
- No Human remains	Third expansion
Initial 1x1	
First expansion	Not excavated

1540

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- Consultation and Coordination with Indian Tribal Governments, Exec. Order No. 13175, 65 Fed. Reg. 218 (Nov. 9, 2000).
- Indian Sacred Sites, Exec. Order No. 13007, 61 Fed. Reg. 104 (May 29, 1996).
- United States. Advisory Council on Historic Preservation. <u>Policy Statement Regarding</u>
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 <u>Sovereignty and Government-to-Government Relations with Indian Tribes</u>,
 Attorney General, (June 1, 1995).
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Appendix C.5 Cultural Resources

C.5.7 Florida Division of Historical Resources, June 25, 2007 Meeting Minutes – Linear Resources: Canals and Associated Features

The notes provided in this section is a summary of the discussion between the South Florida Water Management District, U.S. Army Corps of Engineers Jacksonville Regulatory Division, Florida Department of Historical Resources (FDHR) Florida Master Site File, FDHR Bureau of Historic Preservation, and Florida Department of Transportation Central Environmental Office regarding canals, levees, drainage basins, culvers, water control structures and pump stations. This document is provided for informational purposes only.

Meeting Minutes June 25, 2007

Florida Division of Historical Resources R.A. Gray Building, Tallahassee, Florida

Attendees:

Brenda Mills, Joel Arrieta, Jim Sturgis, South Florida Water Management District (SFWMD); David Pugh, US Army Corps of Engineers (USACOE);

Laura Kammerer, Florida Division of Historical Resources/State Historic Preservation Officer (FDHR/SHPO); Bob Jones, FDHR; Chip Birdsong, FDHR/Florida Master Site File (FMSF); Scott Edwards, FDHR/Bureau of Historic Preservation (BHP); Brian Yates, FDHR/BHP; Sherry Anderson, FDHR/BHP;

Roy Jackson, George Ballo, Florida Department of Transportation Central Environmental Office (FDOT CEMO);

Ken Hardin, Amy Streelman, Janus Research

Laura Kammerer, who invited all participants and hosted the meeting, welcomed the group. The participants then introduced themselves.

Ken Hardin talked about the origin and purpose of the meeting. He then briefly summarized that previously linear historic resources were typically encountered during FDOT projects. The SFWMD plans to continue their plan to operate and maintain the Central and South Florida Project, which includes oversees 2,750 miles of canals and levees, of which long segments may be 50 years or older. In addition, as part of the Everglades Restoration the SFWMD plans to expand several canals as part of the CERP or as part of the state's Acceler8 initiative. The focus of the meeting was to develop a treatment for FDHR/SHPO to address historic canals. Major goals of the meeting were to understand the canal's operations and maintenance, National Register of Historic Places (NRHP) eligibility of canals, NRHP integrity of canals, and Section 106 adverse effects to the canals.

Joel Arrieta and Jim Sturgis gave a Powerpoint presentation that covered the Operations and Maintenance (O&M) of the canals and structures within the SFWMD area, that extends from north of Lake Okeechobee throughout South Florida. This area includes the canals and structures of the early twentieth century, then the later Central and South Florida Project (C&SF) that was authorized in 1948 and still being implemented today. The C&SF project's purposes are flood control, water supply, and protection of fish and wildlife.

The O&M Division manages the canals and implements design memorandums produced by the USACOE. They oversee 2,750 canals and levees, 160 major drainage basins, 755 culverts, 2,000

water control structures, 200 major structures (manned), 130 manual operations, and 60 pump stations. These canals and structures must be maintained, hardened for storms, and updated.

Sherry Anderson asked about the 200 major structures and when they were constructed. Only about 1/3 were built during the initial construction push. SFWMD has a database with the dates of resources and structures. Major pump stations built before 1957 are the S-9, S-2, S-6, S-5A, and S-3. However, these have undergone storm hardening, in which 4-6 inches of concrete and steel is added to exterior. Ms. Anderson also asked about abandoned structures that are no longer in use, and SFWMD said there are not many remaining.

Culverts have a life of approximately 15-18 years, most would not meet the 50 year life span. Many are now concrete box culverts, some are corrugated metal pipes (aluminum) depending on number and function. The historic culverts would have been tar-coated steel pipes. FDHR/SHPO did not seem concerned with culverts based on the likelihood no historic ones remain.

SFWMD works off original as-built plans to maintain the C&SF Project. The C&SF Project is always being modified and updated, and parts of the project have never been built. Major project efforts happen to occur in 20 year intervals, such as 1948, 1968, 1988.

Overall the participants appreciated the presentation as it showed the magnitude and complexity of the system, which had previously been evaluated in small segments by SHPO/FDHR/BHP.

Questions were directed to Chip Birdsong of the FMSF. Recordation in the FMSF for linear historic resources currently takes place on a Resource Group form. For example, the canal itself is documented on a Resource Group form, and if it is being documented as a linear historic district, that district must be recorded on a Resource Group form too. As part of the historic district documentation, associated historic resources (such as locks, pump houses etc.) would be noted on this historic district Resource Group form and then the associated resources would also get separate structure forms. The main concern regarding the documentation of canals was that numerous small segments of canals have been recorded and assigned separate numbers, making it difficult for the recorders and reviewers to fully understand the significance and integrity of the resource. As it is now, FMSF numbers are assigned by county, which can hinder the continuity of documentation for resources such as canals that traverse multiple counties.

Following the discussion of recordation, it was noted that a context would be an appropriate vehicle to assist in the understanding of the primary canal system in a global way. The system was designed based on watersheds; it is a closed system. The following elements of the overall system were outlined: canals, pump stations, locks, culverts, levees, berms, dikes, boat ramps, field stations, bridges, weirs. This context would focus on the early portions of the system, which were constructed prior to the C&SF project, but also the historic portions of the C&SF projects,

centering mostly on the primary canal system. There was a general recognition of the significance of the major canals, including the St. Lucie Canal, West Palm Beach Canal, North New River Canal, Ocean Canal, Hillsboro Canal, Miami Canal, and Bolles/Cross Canal. The many ancillary canals would have to be addressed at a later time. Questions that should be answered in the context would include: What are the major canals? What are the major elements or components? How are they inter-related?

During the discussion of significance, the Interstate Highway Exemption was explained by Roy Jackson, and how as a model this worked fine, but it took an Act of Congress to institute its exemption from the Section 106 process. One of the major premises of this exemption was that the improvements and maintenance activities would not change the original use of the highway system.

It was acknowledged that the system is dynamic and must change. It is an engineering system that must be improved over time. Ms. Kammerer pointed out that Cape Canaveral is similar in that it must change to continue operations, but these changes are not considered adverse effects to the characteristics that make it eligible for inclusion in the National Register of Historic Places (NRHP). She also noted that based on the presentation, FDHR/SHPO is not concerned with the O&M operations in relation to the significance of the canal system and further coordination does not have to take place with FDHR/SHPO.

Ms. Anderson made an important point during the discussion that although a segment of a canal has experienced changes (such as the addition of bulkheads) these changes may not necessarily make the segment non-contributing. This is directly related to assessing the effects of O&M activities. In addition, changes made to portions of the canal may not make an appreciable difference to the overall system.

Prior the conclusion of the meeting the following summation was made:

- Following the presentation, participants gained a much better understanding of the whole system; however, a context of the historic canals of South Florida will be instrumental in defining essential historic features and their significance. Original structures and elements are of particular importance.
- The issue of integrity must be addressed at a system-wide level taking into account the size and complexity of the C&SF Project.
- Effects that changes may have to the system must be relative to the system as a whole.
- Because of the nature of O&M operations presented at the meeting, FDHR/SHPO has
 determined those activities do not constitute an adverse effect. In addition, minor changes
 such as widening and deepening do not rise to the level of adverse effect. Changes that

may result in an adverse effect determination could include major changes in direction or reorientation, and major changes to the canal shape or function.

• FDHR/SHPO agreed that this context and treatment will be specific to the SFWMD projects.

FOR CONTINUATION OF HOUSE DOCUMENT 114-65

COMPREHENSIVE EVERGLADES RESTORATION PLAN, CENTRAL EVERGLADES PLANNING PROJECT, INTEGRATED PROJECT IMPLEMENTATION REPORT AND ENVIRONMENTAL IMPACT STATEMENT: FINAL JULY 2014, REVISED DECEMBER 2014

SEE PART 5